MCP SERVER | NO CODE | CLOUD HOSTED

RxNorm Drug Terminology MCP

Standardize clinical drug names into codes.

RxNorm Drug Terminology MCP resolves messy clinical drug names into standardized medical codes instantly. Connect your AI agent directly to industry-standard databases used by hospitals and research labs worldwide. You can take ambiguous or misspelled medication names and normalize them into unique, reliable RxCUI identifiers. This gives you the structured data necessary for auditing electronic health records, mapping complex pharmaceutical relationships, and ensuring data integrity in any medical application.

A+ Quality Score 100/100

clinical-data | drug-nomenclature | semantic-interoperability | medical-coding | umls

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vinkius.com/mcp/rxnorm-drug-terminology

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

RxNorm Drug Terminology MCP

3 tools available
Cloud-hosted on Vinkius

When dealing with healthcare data, names are rarely simple. A single drug concept might be called by a brand name, an active ingredient, or a generic description, depending on who is writing the record. This MCP provides the authoritative intelligence needed to standardize that information. Instead of relying on fuzzy matching or internal dictionaries, your agent pulls from recognized medical terminologies used globally. You can ask it to resolve ambiguous terms and retrieve the unique identifier required for consistent data mapping. Because this integration lives within Vinkius, you connect once through any MCP-compatible client—Claude, Cursor, Windsurf, etc.—and instantly gain access to this deep pool of clinical drug knowledge. It's how your agent acts like a dedicated medical terminologist every time it encounters a medication name.

Core Capabilities

01 — Normalize Drug Names

It translates ambiguous, real-world drug names into the official, standardized RxNorm terminology.

02 — Retrieve Unique Identifiers

It fetches the unique RxCUI code for any specific drug concept in the database.

03 — Suggest Corrections

If a name is misspelled or unclear, it offers accurate spelling and terminology suggestions.

04 — Map Drug Components

It explores relationships between drug brands, active ingredients, and specific clinical dose forms.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/rxnorm-drug-terminology** — connect your AI agent in three steps.

01 Subscribe to this MCP on Vinkius.

02 Your agent connects using your preferred AI client; no API key is required for public access.

03 Ask your agent a question, like 'What is the code for Tylenol?' and it returns the standardized identifier.

The bottom line is that you get immediate, reliable access to decades of curated medical knowledge without needing to manage any keys or complex data calls yourself.

Built For

This MCP is essential for anyone working with structured clinical data. It targets the pain point of data inconsistency where human input—whether a misspelled name, a brand name, or an ingredient list—breaks automated workflows and makes research impossible.

Clinical Data Scientist

Ensures data integrity by mapping messy drug concepts in large datasets to official, standardized medical codes.

Health Tech Developer

Integrates reliable terminology into new applications and databases so they can accurately process medication information from the start.

Medical Auditor

Verifies the accuracy of recorded medication lists in electronic health records against official, industry-recognized standards.

What Changes When You Connect

01 Eliminate data ambiguity. Instead of guessing which code to use, your agent finds the official RxCUI identifier for any common name or brand.

02 Validate records instantly. If you're auditing an electronic health record, you can check medication entries against known spellings and concepts using get_drug_spelling_suggestions.

03 Deep dive into drug relationships. Use get_drug_properties to see all associated ingredients, dose forms, and brand names linked to a single concept.

04 Build robust pipelines. Developers use this MCP to ensure that data entering their applications is clean and standardized right away.

05 Handle complexity effortlessly. Your agent handles the messy work of mapping multiple naming conventions (brand vs. generic) into one source of truth.

Real-World Applications

Auditing a patient's medication list

A health tech auditor needs to check if 50 different medications entered manually match official codes. They ask their agent, 'Check these drugs: Tylenol, Amox 500mg, and Aspirin.' The MCP resolves each name to its unique RxCUI code, providing a clean checklist for compliance.

Integrating drug data into a new app

A developer is building an app that needs to display all related compounds for 'Lipitor'. They use the MCP to get the core ingredient's identifier and then use it to pull properties, ensuring their front-end displays comprehensive details.

Researching drug concepts

A clinical researcher wants to know all possible forms of a specific compound. They ask the agent for related terms for 'Atorvastatin'. The MCP doesn't just give one code; it maps out multiple components and strengths.

Cleaning up historical EHR data

An auditor has a batch of records with inconsistent spelling ('Amoxillin' vs. 'Amoxicillin'). They run the names through the agent, which uses get_drug_spelling_suggestions to correct and standardize every single entry before analysis.

Patterns to Avoid

Assuming brand name is enough

✗ AVOID

A user simply copies and pastes 'Tylenol' into a database field, assuming the system knows it refers to Acetaminophen (RxCUI: 161). This often fails if multiple strengths exist.

✓ INSTEAD

Instead, ask your agent to use the get_rxcui_by_name tool. It resolves 'Tylenol' and provides the primary clinical concept ID, giving you the foundational code needed for accurate data storage.

Using general search tools

✗ AVOID

Relying on a standard web search to find drug codes is slow and inconsistent. The results are unstructured text that requires manual cleaning.

✓ INSTEAD

Use this MCP with your agent. It talks directly to the official, structured database and gives you machine-readable identifiers and properties immediately.

Ignoring spelling errors

✗ AVOID

A user types 'Amoxillin 500mg' but gets an error because of a typo. The entire data entry fails validation.

✓ INSTEAD

First, run the term through get_drug_spelling_suggestions. It catches the typo and provides the corrected name, allowing you to proceed with accurate code lookups.

The Right Fit

Use this MCP if your core need is data integrity for drug terminology; specifically, when you must map human-readable names into universal, machine-readable standards. This tool excels at answering 'What is the official code?' or 'How are these things related?'. Don't use it if you just want general medical information (like a symptom checker) — those tools work fine without standardization. Also, don't use it to compare drug interactions between two drugs; while it provides properties, specialized pharmacovigilance databases handle that complexity better. However, if your task is normalization or validating the components of a single drug concept, this MCP is unmatched.

The headache of inconsistent drug nomenclature

Today, cleaning up medication records means dealing with a chaotic mix of sources. You're copy-pasting data from patient intake forms, research papers, and disparate EHR systems. You find 'Tylenol,' but later you see the record says 'Acetaminofene 500mg.' You spend hours in Excel tabs cross-referencing these variations just to ensure your dataset is even semi-usable.

With this MCP, that manual data reconciliation vanishes. Your agent handles the translation instantly. Instead of a messy column full of names, you get one clean, standardized RxCUI code for every single drug concept—no guesswork required.

RxNorm Drug Terminology: Structured Codes and Properties

You no longer have to manually look up what a brand name (like Lipitor) corresponds to its core chemical component (Atorvastatin). You also don't need separate tools to verify if the spelling of 'Amoxicillin' is correct before you can even start working with it.

Now, you ask your agent once. It resolves the code and provides all related properties—the brand names, ingredients, and dose forms—in one structured reply. The data just flows.

RxNorm Drug Terminology: 3 Tools

Use these tools to find official drug codes, correct spellings, and retrieve detailed properties on any medication concept.

#	TOOL	DESCRIPTION
01	`get_drug_properties`	Retrieves detailed information on a drug concept using its unique identifier.
02	`get_rxcui_by_name`	Converts a common or brand-name drug input into the official RxCUI code.
03	`get_drug_spelling_suggestions`	Suggests accurate spellings and alternative terms if you provide an ambiguous or misspelled drug name.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U Normalize the drug name 'Tylenol'.

Searching RxNorm... I've resolved 'Tylenol' to several standardized concepts. The primary clinical concept is Acetaminophen (RxCUI: 161). Would you like to see the different dose forms and strengths available?

U What is the RxCUI for 'Amoxicillin 500mg capsule'?

Retrieving normalized ID... The specific RxCUI for Amoxicillin 500 MG Oral Capsule is 308182. This identifier can be used for consistent record keeping and clinical data mapping.

U Show related drug concepts for 'Lipitor'.

Inspecting related terms... 'Lipitor' is a brand name for the ingredient Atorvastatin (RxCUI: 83367). It is available in various clinical drug components and packs. Would you like a list of all strengths and forms linked to this brand?

Frequently Asked Questions

01 **How does RxNorm Drug Terminology MCP work with misspelled drug names?**

It corrects them for you using the get_drug_spelling_suggestions tool. If a name is misspelled or ambiguous, this MCP suggests valid alternative spellings and concepts so your data remains clean.

02 **What kind of codes does RxNorm Drug Terminology MCP provide?**

It provides unique RxCUI identifiers. These are industry-standard codes used across major healthcare systems to represent a specific drug concept, regardless of how it's named.

03 **Can I use this MCP for research purposes?**

Yes, you can pull detailed properties using get_drug_properties. This lets researchers map out the full relationships between ingredients, brand names, and various dose forms for deeper analysis.

04 **Is RxNorm Drug Terminology MCP reliable for legal or medical compliance?**

Yes, this MCP connects to established national databases. It provides the industry standard terminology used when auditing electronic health records.

05 **Does RxNorm Drug Terminology MCP require an API key?**

No, because it's hosted on Vinkius, you don't need to manage keys. You simply connect your AI client and start using the functionality immediately.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"rxnorm-drug-terminology": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

RxNorm Drug Terminology is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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