

default

GET / Read Root

Parameters

No parameters

ExecuteClear

Responses

Curl

curl -X 'GET' \n'http://127.0.0.1:8000/' \n-H 'accept: application/json'

Request URL

http://127.0.0.1:8000/

Server response

Code	Details
200	<div><div>Response body</div><div>{\n "message": "Drug Discovery AI API"\n}</div><div>Response headers</div><div>content-length: 35\ncontent-type: application/json\ndate: Wed, 27 Aug 2025 20:11:20 GMT\nserver: uvicorn</div></div>

Responses

Code	Description	Links
200	Successful Response	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

"string"

POST /analyze Analyze Compound

Parameters

No parameters

Request body requiredapplication/json

Example Value | Schema

{\n "compound": "string"\n}

Responses

Curl

curl -X 'POST' \n'http://127.0.0.1:8000/analyze' \n-H 'accept: application/json' \n-H 'Content-Type: application/json' \n-d '{\n "compound": "aspirin"\n}'

Request URL

http://127.0.0.1:8000/analyze

Server response

Code	Details
200	<div><div>Response body</div><div>H3) and a carboxylic acid group (COOH).\n\n3. **Solubility**: Aspirin is sparingly soluble in water but more soluble in organic solvents like ethanol and isopropanol. Its solubility in water is approximately 1.0 mg/ml at room temperature.\n\n4. **pKa Values**: Aspirin has a pKa of 3.5 for the carboxylic acid group, which affects its ionization and solubility at physiological pH.\n\n5. **Melting Point**: The melting point of aspirin is around 135-136 °C.\n\n6. **Boiling Point**: Aspirin decomposes before it reaches a boiling point, indicating that it cannot be effectively boiled.\n\n7. **Stability**: Aspirin is stable under standard conditions, but it may hydrolyze in the presence of moisture and heat, leading to the formation of salicylic acid and acetic acid.\n\n8. **Mechanism of Action**: Aspirin functions primarily as an inhibitor of cyclooxygenase (COX) enzymes, preventing the conversion of arachidonic acid to prostaglandins, which are mediators of inflammation, pain, and fever.\n\n9. **Adverse Effects**: While effective, aspirin can cause gastrointestinal irritation, bleeding risks, and allergic reactions in some individuals.\n\nAspirin's pharmacological properties and its extensive use in cardioprotective therapy make it a vital drug in various clinical settings.\n\nPlease feel free to ask about any further aspects or specifics about aspirin or its properties!\n\n{\n "pydantic": null,\n "json_dict": null,\n "agent": "Medicinal Chemist",\n "output_format": "raw"\n}\n],\n"token_usage": {\n "total_tokens": 176609,\n "prompt_tokens": 173727,\n "cached_prompt_tokens": 140800,\n "completion_tokens": 2882,\n "successful_requests": 50\n}\n}\n\n{\n "detail": [\n {\n "loc": [\n "string",\n 0\n],\n "msg": "string",\n "type": "string"\n }\n]\n}\n\n</div><div>Response headers</div><div>content-length: 4778\ncontent-type: application/json\ndate: Wed, 27 Aug 2025 20:11:43 GMT\nserver: uvicorn</div></div>

Responses

Code	Description	Links
200	Successful Response	No links
422	Validation Error	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

{\n "detail": [\n {\n "loc": [\n "string",\n 0\n],\n "msg": "string",\n "type": "string"\n }\n]\n}

Schemas

AnalyzeRequest > Expand all object

HTTPValidationError > Expand all object

ValidationError > Expand all object