Eliglustat

Catalog No.C13000 Batch:C1300003

Product Datasheet

Technical Data

Formula	$C_{23}H_{36}N_2O_4$					
Molecular Weight	404.54	**CAS No.**	491833-29-5			
Solubility (25°C)*	In vitro	DMSO	240 mg/mL (593.26 mM)			
		Ethanol	80 mg/mL (197.75 mM)			
		Water	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.
		Injection	Clear solution	5%DMSO →[1] Corn oil Validated by Capsid Bio labs. Should you need adjustments to this formulation, contact our sales team for custom testing.	6.000mg/ml (14.83mM)	Taking the 1 mL working solution as an example, add 50 μL of 120 mg/ml clear DMSO stock solution to 950 μL of corn oil and mix evenly. The mixed solution should be used immediately for optimal results.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Biological Activity

Description	Eliglustat (GENZ-112638) inhibits **glucosylceramide synthase(GCS)** (IC50=20 nM in intact MDCK cells), thus reducing the load of glucosylceramide influx into the lysosome.
Targets	glucosylceramide synthase [1] (In intact MDCK cells) 20 nM
In vitro	Eliglustat tartrate is designed and developed to inhibit glucosylceramide synthase, the enzyme that catalyzes the formation of glucosylceramide from UDP-glucose and ceramide.The inhibition of glucosylceramide synthase by this compound is highly specific. It displays limited or no activity against a variety of glycosidases. Additionally, no inhibition of sucrase or maltase is observed at drug concentrations up to 10 μM[1].
In vivo	Preclinical studies in normal mice, rats and dogs with i.v. and oral administration of this compound demonstrates significant dose-related decreases in spleen, kidney and liver glucosylceramide content, consistent with prior observations with the palmitoyl homologue[1].In rodents, this compound is rapidly metabolized with a half-life of 15–45 minutes[2].

References

https://pubmed.ncbi.nlm.nih.gov/22563139/ https://pubmed.ncbi.nlm.nih.gov/20574539/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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