Product Datasheet

Technical Data

Formula	$C_{26}H_{21}N_3O_3$					
Molecular Weight	423.46	**CAS No.**	55779-48-1			
Solubility (25°C)*	In vitro	DMSO	84 mg/mL (198.36 mM)			
		Ethanol	1 mg/mL (2.36 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.

* <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	Coelenterazine is a luminescent enzyme substrate for apoaequorin and Renilla luciferase. Renilla luciferase and substrate coelenterazine have been used as bioluminescence donors in bioluminescence resonance energy transfer (BRET) to detect protein-protein interactions. Coelenterazine is a superoxide anion-sensitive chemiluminescent probe, and it can also be used in the chemiluminescent detection of peroxynitrite.
In vitro	When monitoring various biological processes, coelenterazine (CTZ) can be catalyzed by luciferases, such as the sea pansy Renilla reniformis (Rluc) and the marine copepod Gaussia princeps (Gluc), which results in emission of blue light. In Gli36-Gluc- or Gli36-Rluc-expressing Gli36 cells, this compound (8 磺/ml) shows a bioluminescence signal. [1] In RIN-5F, 4T1, HCT 116, HEK 293, 293FT, HeLa and INS-1 cells, this chemical can be used to assay superoxide anion concentrations. [2]
In vivo	In 4T1-implanted mouse, Coelenterazine detects cancer-associated superoxide anion and this compound is used to evaluate the role of superoxide anion in cancer cell biology and its role in pathology. [2]
Density	1.32 g/mL

References

https://pubmed.ncbi.nlm.nih.gov/22472977/ https://pubmed.ncbi.nlm.nih.gov/26420297/ https://pubmed.ncbi.nlm.nih.gov/15958634/

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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.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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