

Coelenterazine

Catalog	Unit
TBP0124-5MG	5 mg

Description

Coelenterazine is a naturally occurring luciferin—a light-emitting molecule—found in various marine organisms such as jellyfish, hydroids, and ctenophores. It serves as a substrate for luciferases and photoproteins like aequorin, which emit blue light (emission maximum, 460-470 nm) upon oxidation of coelenterazine to coelenteramide. This bioluminescent reaction is calcium-dependent, making coelenterazine-based systems valuable tools for monitoring intracellular calcium levels and redox states in biological research.

Product Details

Formal Name: 6-(4-hydroxyphenyl)-2-[(4-hydroxyphenyl)methyl]-8-(phenylmethyl)-imidazo[1,2-a]pyrazin-3(7H)-one

Alternative names: Luciferin (Oplophorus); Preluciferin (Watasenia)

Molecular Formula: C₂₆H₂₁N₃O₃

Formula Weight: 423.5

CAS Number: 55779-48-1

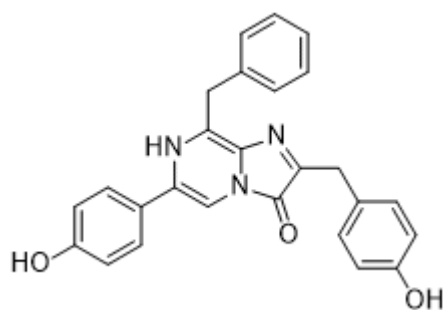
Purity: > 98%

Formulation: powder

Storage: -20°C

Stability: >4 years

Solubility: Ethanol: 0.5 mg/ml; Methanol: 0.5 mg/ml



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