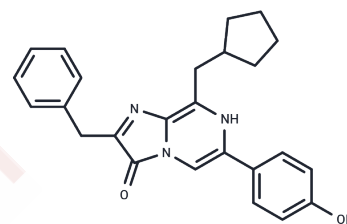


## Coelenterazine hcp

## Chemical Properties

CAS No. :	123437-32-1
Formula:	C <sub>25</sub> H <sub>25</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	399.494
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Coelenterazine hcp is a synthetic bioluminescent luciferin that displays an emission maximum of 445 nm. It has been used as a calcium indicator and substrate to quantify Renilla luciferase activity. <sup>1,2,3</sup>
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5032 mL	12.516 mL	25.0319 mL
5 mM	0.5006 mL	2.5032 mL	5.0064 mL
10 mM	0.2503 mL	1.2516 mL	2.5032 mL
50 mM	0.0501 mL	0.2503 mL	0.5006 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sabnis, R.W. Handbook of biological dyes and stains: Synthesis and industrial applications(2010)

Shimomura, O., Kishi, Y., and Inouye, S. The relative rate of aequorin regeneration from apoaequorin and coelenterazine analogues Biochemistry Journal 296(Pt 3)549-551(1993)

Pichler, A., Prior, J.L., and Piwnicka-Worms, D. Imaging reversal of multidrug resistance in living mice with bioluminescence: MDR1 P-glycoprotein transports coelenterazine Proc. Natl. Acad. Sci. USA. 101(6)1702-1707(2004)

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