

Product Data Sheet

Product Name: Coelenterazine hcp

Cat. No.: GC49345

Chemical Properties

Cas. No. 123437-32-1

SMILES O=C1C(CC2=CC=CC=C2)=NC3=C(CC4CCCC4)NC(C5=CC=C(O)C=C5)=CN13

Formula $C_{25}H_{25}N_3O_2$

M.Wt 399.5

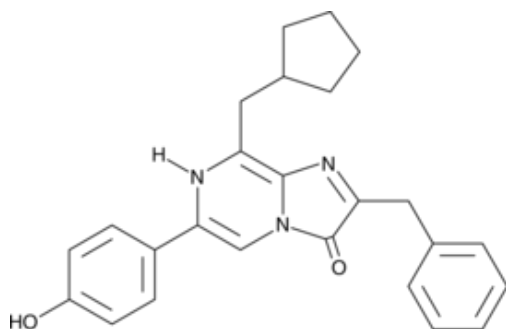
Solubility Ethanol: soluble

Storage -20°C ; protect from light

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Coelenterazine hcp is a synthetic bioluminescent luciferin that displays an emission maximum of 445 nm.¹ It has been used as a calcium indicator and substrate to quantify *Renilla* luciferase activity.^{1,2,3}

1. Sabnis, R.W. Handbook of biological dyes and stains: Synthesis and industrial applications (2010)
2. 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)
3. 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)

Caution: Product has not been fully validated for medical applications. For research use only.

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