



Product Information

Product ID C5618
CAS No. 55779-48-1
Chemical Name 2-(p-Hydroxybenzyl)-6-(p-hydroxyphenyl)-8-benzyl-imidazo[1,2-a]pyrazin-3-(7H)-one

Synonym

Formula C₂₆H₂₁N₃O₃
Formula Wt. 423.46

Melting Point

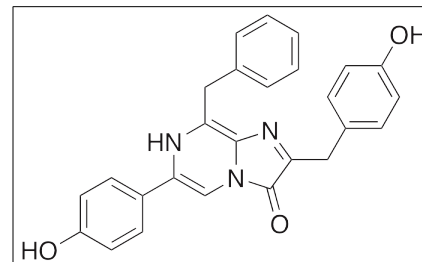
Purity ≥98%

Solubility 0.5mg/ml in ethanol or methanol. Do not dissolve in DMSO as it may oxidize

Store Temp -20° C

Ship Temp Ambient

Description Coelenterazine is a luciferin-related compound found in aquatic organisms; it is oxidized by *Renilla* luciferase, an enzyme derived from the sea pansy, and this reaction can be used to measure a variety of activities in cellular or animal models when luciferase is used as a reporter gene. Coelenterazine is one of two components of aequorin, a calcium-sensitive photoprotein found in bioluminescent jellyfish. During the oxidation, peak light emission occurs at approximately 469 nm, yielding a blue color. Because coelenterazine oxidizes in organic solvents such as DMSO, it is preferably stored in methanol or with inert gases.



Bulk quantities available upon request

Product ID	Size
C5618	1 mg
C5618	5 mg

References Schill WB. Immunofluorescent localization of acrosin in spermatozoa by boar acrosin antibodies. *Naturwissenschaften*. 1975 Nov;62(11):540-1. PMID: 765844.

Shimomura O, Johnson FH. Chemical nature of bioluminescence systems in coelenterates. *Proc Natl Acad Sci U S A*. 1975 Apr;72(4):1546-9. PMID: 236561.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.