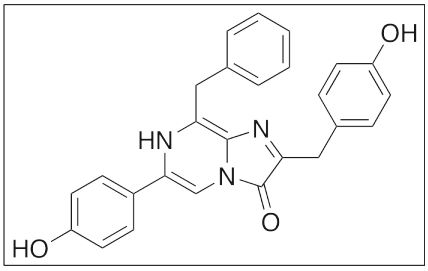
LKT Laboratories, Inc.

Coelenterazine, natural

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

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 $C_{26}H_{21}N_3O_3$
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

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
C5618	1 mg	$404.30
C5618	5 mg	$1021.00

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.

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.