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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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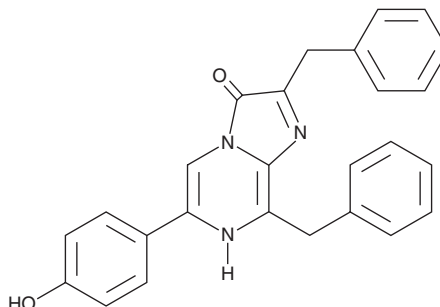
PRODUCT INFORMATION



Coelenterazine h

Item No. 16894

CAS Registry No.: 50909-86-9
Formal Name: 6-(4-hydroxyphenyl)-2,8-bis(phenylmethyl)-imidazo[1,2-a]pyrazin-3(7H)-one
Synonyms: 2-deoxy Coelenterazine, Luciferin (Renilla)
MF: C₂₆H₂₁N₃O₂
FW: 407.5
Purity: ≥95%
UV/Vis.: λ_{max}: 260, 345, 439 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Special Conditions: Do not dissolve in DMSO, may oxidize

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Coelenterazine h is supplied as a crystalline solid. A stock solution may be made by dissolving the coelenterazine h in the solvent of choice, which should be purged with an inert gas. Coelenterazine h is soluble in organic solvents such as ethanol and methanol. The solubility of coelenterazine h in these solvents is approximately 0.5 mg/ml.

Description

Coelenterazine (Item No. 16123) is a luciferin, a light-emitting biomolecule that serves as a substrate for luciferases or as a constituent of photoproteins, including aequorin.¹ Coelenterazine can be used to reconstitute the aequorin complex both *in vivo* and *in vitro*, emitting blue light when bound to calcium ions. Coelenterazine h is a synthetic derivative of native coelenterazine that exhibits 16-fold higher luminescence intensity (emission maximum ~466 nm; half-total time of 0.6-1.2 sec) than native coelenterazine.² Aequorin complexes reconstituted with coelenterazine h are reported to be more sensitive to calcium ions than those employing the native constituent, providing a useful indicator for small changes in Ca²⁺ concentrations.³

References

1. Sabnis, R.W. *Handbook of biological dyes and stains: Synthesis and industrial applications*. 1st edition, John Wiley & Sons, Inc., Madison, NJ (2010).
2. Teranishi, K. and Shimomura, O. Coelenterazine analogs as chemiluminescent probe for superoxide anion. *Anal. Biochem.* **249**(1), 37-43 (1997).
3. Shimomura, O., Kishi, Y., and Inouye, S. The relative rate of aequorin regeneration from apoaequorin and coelenterazine analogues. *Biochem. J.* **296**(Pt 3), 549-551 (1993).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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