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Zuschläge

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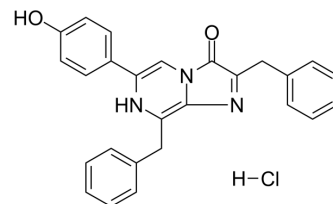
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Coelenterazine h hydrochloride

Cat. No.:	HY-D1024A
Molecular Formula:	C ₂₆ H ₂₂ ClN ₃ O ₂
Molecular Weight:	443.92
Target:	Biochemical Assay Reagents; Calcium Channel
Pathway:	Others; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (225.27 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.2527 mL	11.2633 mL	22.5266 mL	
5 mM	0.4505 mL	2.2527 mL	4.5053 mL	
10 mM	0.2253 mL	1.1263 mL	2.2527 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Coelenterazine h (2-Deoxycoelenterazine) hydrochloride, a coelenterazine derivative, is a luminescent substrate for RLuc8. Coelenterazine h hydrochloride is more sensitive to Ca²⁺, thus providing a valuable tool for measuring small changes in Ca²⁺ concentrations^{[1][2][3][4]}.

In Vitro

Coelenterazine h (1-10 μM) hydrochloride can be used as the luminescent substrate for RLuc8^[4]. In the measurements of Ca²⁺ binding kinetics of BRAC, emission intensity of Venus (530 nm) from BRAC are monitored at 1 kHz just after rapid mixing of 5 nM BRAC protein with 20 μM coelenterazine-h hydrochloride in various concentration of Ca²⁺ buffer^[4].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Biol Chem. 2023 Dec 1:105527.
- Stress Biol. 2024 Feb 16;4(1):14.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Jiang T, et al. New bioluminescent coelenterazine derivatives with various C-6 substitutions. *Org Biomol Chem*. 2017 Aug 23;15(33):7008-7018.
 - [2]. M R Knight, et al. Imaging calcium dynamics in living plants using semi-synthetic recombinant aequorins. *J Cell Biol*. 1993 Apr;121(1):83-90.
 - [3]. Kazushi Suzuki, et al. Five colour variants of bright luminescent protein for real-time multicolour bioimaging. *Nat Commun*. 2016 Dec 14;7:13718.
 - [4]. Saito, et al. Auto-luminescent genetically-encoded ratiometric indicator for real-time Ca²⁺ imaging at the single cell level. *PLoS One*. 2010 Apr 1;5(4):e9935.
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Caution: Product has not been fully validated for medical applications. For research use only.

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