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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

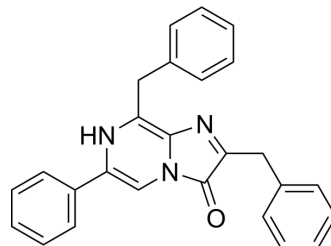
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Coelenteramine 400a

Cat. No.:	HY-118462
CAS No.:	70217-82-2
Molecular Formula:	C ₂₆ H ₂₁ N ₃ O
Molecular Weight:	391.46
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 1 mg/mL (2.55 mM; ultrasonic and warming and heat to 60°C; DMSO can inactivate Coelenteramine 400a's activity)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5545 mL	12.7727 mL	25.5454 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Coelenteramine 400a (Coelenterazine 400a), a derivative of Coelenterazine, is a Renilla luciferase (RLuc) substrate. In the presence of Coelenteramine 400a, RLuc can emit blue light at 395 nm^{[1][2]}. Coelenterazine 400a will causes color change in the bioluminescence reaction of RLuc by replacing the sulfur and oxygen heteroatoms of the methylene bridge. Coelenterazine 400a provides higher signal resolution and can be used in the research of bioluminescence resonance energy transfer (BRET)^[3].

REFERENCES

- [1]. Yuan M L, et al. Luminescence of coelenterazine derivatives with C-8 extended electronic conjugation[J]. Chinese Chemical Letters, 2016, 27(4): 550-554.
- [2]. Levi J, et, al. Bisdeoxycoelenterazine derivatives for improvement of bioluminescence resonance energy transfer assays. J Am Chem Soc. 2007 Oct 3;129(39):11900-1.
- [3]. Bertrand L, et, al. The BRET2/arrestin assay in stable recombinant cells: a platform to screen for compounds that interact with G protein-coupled receptors (GPCRS). J Recept Signal Transduct Res. Feb-Nov 2002;22(1-4):533-41.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA