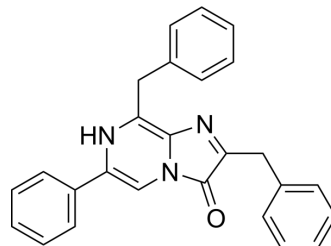


Coelenteramine 400a

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:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



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.

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