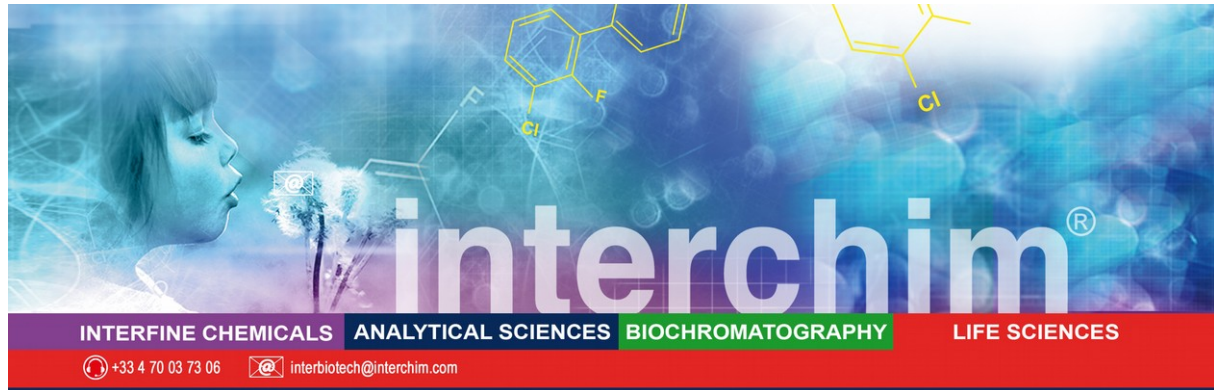


FT-1P6180



Methoxy e-Coelenterazine

emits around 405 nm with *RLuc*, *RLucII*, *RLuc3*, *RLuc8* and *Green Renilla Luc*

Product Description

Name :	Methoxy e-Coelenterazine, Water-soluble for <i>in vitro</i> use
Catalog Number :	FP-1P6180, 10 ml
Molecular Weight :	MW= 463.53
Solubility:	Water
Absorption / Emission :	$\lambda_{em} = 405 \text{ nm}$
K_d of Ca^{2+}-Binding :	μM
EC ($\text{M}^{-1} \text{cm}^{-1}$) :	

Storage: -20°C Protect from light and moisture

Introduction

methoxy e-Coelenterazine (Me-O-e-CTZ) is a new synthetic analogue of e-Coelenterazine with an additional methoxy group quenching the emission maximum from 475 nm to 405 nm (Patented Technology developed Prolume Purple - US Patent 2013/057660).

methoxy e-Coelenterazine (Me-O-e-CTZ) exhibits an up to 13-fold higher luminescence than CTZ400a ("deep blue C").

The luciferin is shipped as filtered, lyophilized, batch controlled substrate in 250 μg and 500 μg aliquots. 1 mg = 2x 500 μg . 10 mgs is packed as regular powder in one tube.

The advantages of lyophilized luciferins are:

- pre-aliquoted in small amounts, fresh substrate for every set of experiments
- long shelf-life (packed under Argon)

Directions for use

Content

231.8 µg water soluble Me-O-e-CTZ (MW: 463.53) per vial, resulting in a 50 µM Me-O-e-CTZ solution if dissolved in 10 ml of an aqueous buffer.

Storage

Please store vacuum sealed vials at -80°C, for shorter periods of time at -20°C. Keep dark. Dissolved Me-O-e-CTZ should be used immediately.

Usage

1. Warm tube to room temperature.
2. For a 50 µM solution add 10 ml of an aqueous buffer (e.g. PBS, TBS).
For a 100 µM solution add only 5 ml.
3. Vortex until completely dissolved. Use immediately in a luminometer assay.

Please note that the stability of the compound is dependent on the pH of the added buffer. Buffers with a pH greater than 6.5 will cause a faster degradation (oxidation) of the Coelenterazine compound.

References

- Zhang *et al.* Bioluminescence Assisted Switching and Fluorescence Imaging (BASFI), *J.Phys. Chem. Lett.*, 4:3897-3902 (2013)

Technical and scientific information

Related products

- Viromer RED for plasmid transfection, 1G7630
- rLuc plasmids from Oxford Genetics

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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