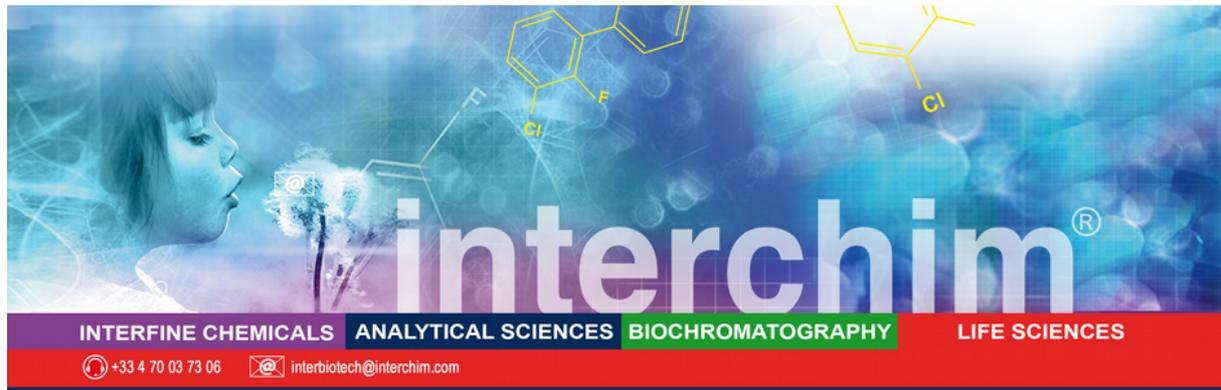


FT-1J4660



Coelenterazine Solvent

To dissolve Coelenterazine in a 10 times higher concentration compared to 100% Ethanol or Methanol.

Product Description

Name :	Coelenterazine Solvent
Catalog Number :	1J4660, 1 ml 1J4661, 10 x 1 ml

Storage: Ship at Room Temperature. Upon arrival store at -20°C or below.

Introduction

Coelenterazine Solvent is a solution to the problem associated with the solubility of Coelenterazine and the many new Coelenterazine analogs that have been made available in recent years.

It is not designed for IN VIVO live animal imaging use. Please use sterile luciferins injection vials for live animal imaging.

Most of Uptima's products now come as pre-dried films containing 0.5 mg (500µg) of luciferin lyophilized and Argonized in plastic conical bottom tubes with O-ring sealed lids.

Directions for use

Guidelines for use

Adding 100 µl to 200 µl of warm Coelenterazine Solvent to a 0.5 mg tube containing Coelenterazine or analog, vortexing for a 20-30 seconds, then shake down or spin down for a few seconds should be enough to get your luciferin into a solution suitable for use, (most people usually use this as their "stock-solution" and it will contain as high as 5 mgs/ml to 1mg per ml based on your dilution and amount of luciferin used).

This "stock-solution" is then added to buffer of choice for use in your experiments.

A few words about Coelenterazine luciferins:

1. We do not recommend storing stock solutions. We suggest always making up fresh solution immediately before use; however many people have frozen the "stock-solution" at -20°C to -70°C and warm the solution prior to use and claim no ill effect.

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2. When making aqueous solutions, allow them to stand at room temperature for 20-30 minutes to stabilize. (Dissolved oxygen in the buffer solution is being consumed by the luciferin during this period).
3. Undiluted "Stock Solution" is generally stable for a few days at room temperature, avoid light, and keep in tightly closed vials, however once added to aqueous solutions the stability will decline and be completely gone overnight at room temperature.
4. Slightly acidic solutions prevent Coelenterazines from auto-oxidation and generally Coelenterazine solutions are more soluble in acidic solutions, pH 3-6.
5. Fresh crystalline ascorbic acid can be added as a stabilizer to some degree.
6. The more hydrophobic Coelenterazines, such as Coelenterazine 400a is very insoluble in water and will only make very weak solutions.
7. Remember, all coelenterazine luciferins and analogs are strained high energy dioxetanone molecules and they spontaneously decompose.
8. Super pure Coelenterazines form very stable crystals that can be very hard to dissolve, you may heat most Coelenterazines to as high as 80-90°C for brief periods to help solubilize them.
9. Inspection for clear solutions is wise; experiment to experiment results will vary widely and be confusing to interpret if precipitates form usually due to pH and buffer compositions.

References

- Berglund K. *et al.*, Combined Optogenetic and Chemogenetic Control of Neurons, *Optogenetics*, 1408 :207-225 (2016)
- Tariqul Islam A.F.M. *et al.*, Studying Chemoattractant Signal Transduction Dynamics in Dictyostelium by BRET, *Chemotaxis*, 1407 :63-77 (2016)

Technical and scientific information

Related products

- Coelenterazine native, UP972333
- Coelenterazine H, UPR30783
- Coelenterazine F, 438762
- Coelenterazine 400a, UPBB8392
- Cypridina Luciferin 2HBR blue light, FP-CQ5281
- Coelenterazine Sterile Injection Vials for animal *in vivo*, FP-BV0731
- Coelenterazine H Sterile Injection Vials for animal *in vivo*, FP-BV0681

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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