

FT-A7W5H0



Water-soluble Coelenterazine H for *in vivo* use

For safe *in vivo* imaging applications with *Renilla Luciferase*

Product Description

| | |
|-------------------------|---|
| Name : | Coelenterazine H CTZ H |
| Catalog Number : | FP-A7W5H0, 500µg FP-A7W5H1, 2 x 500µg FP-A7W5H2, 20 x 500µg |
| Solubility: | Water |

Storage: -80°C Protect from light and moisture.
-20°C for shorter periods of time.
Resuspended Coelenterazine H should be used within a day*; do not refreeze

Introduction

Coelenterazine compounds are often dissolved in Propyleneglycol (PG) in combination with other alcohols for *in vivo* imaging studies. Large intravenous doses of PG given over a short period of time can be toxic, including hyperosmolality, increased anion gap metabolic acidosis (due to lactic acidosis), acute kidney injury, and sepsis-like syndrome.

This can be avoided using water-soluble h-Coelenterazine. It is formulated to be isosmotic and easily secreted by the kidneys. Thus save for repeated i.v. injections. Water-soluble h-Coelenterazine can be injected up to a 500 µg/100 µl concentration, achieving very high Coelenterazine levels within the body and leading to high luciferase signals.

- Non-toxic, iso-osmotic, Propylene-Glycol free, Alcohol free
- Long shelf-life, sealed under vacuum
- Dissolves fast in sterile water
- Low viscosity - ideal for injections
- Consistent quality due to small aliquot sizes (500 µg)

* Loss of activity is approx. 10% after 24 hours if stored as reconstituted liquid at room temperature.

Directions for use

Guidelines for use

1. Warm vial to room temperature.
2. Add 100 µl of sterile water to one vial (do not use PBS) to dissolve the h-CTZ-solution.
3. After addition of water let the powder rehydrate for 3 min, vortex the vial until completely dissolved (might take up to a minute using low volume). Let the vial sit on the bench-top until air-bubbles disappear (approx. 5-10 min). The clear yellow liquid can be further diluted with sterile 0.9% NaCl solution if desired.

| <u>Desired CTZ Amount per injection</u> | <u>Added volume</u> | <u>Volume per injection</u> |
|---|---------------------|-----------------------------|
| 100 µg | 100 µl | 5 injections of 20 µl |
| 250 µg | 100 µl | 2 injections of 50 µl |
| 500 µg | 100 µl | one injection of 100 µl |

4. Draw up the desired volume (see table above) with Insulin syringe (e.g. BD cat. # 328430). Inspect for, and remove any air bubbles in the syringe and flush the needle. Inject via tail vein to ensure optimal distribution throughout the body. The advantage of using Insulin syringes is their very low (<2µl) holdup volume! **Inject slowly.**

Technical and scientific information

Related products

- Coelenterazine Sterile Injection Vials for Animal in vivo Imaging only, FP-BV0731
- Native Coelenterazine, water-soluble, 10ml tube, FP-1B3610

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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