

Instructions: Water-soluble Coelenterazine for *in vivo* use

Content:

500 µg/vial sterile water-soluble Coelenterazine

Storage:

Please store unopened vials at -80°C, for shorter periods of time at -20°C. Keep dark and dry. Resuspended Coelenterazine should be used immediately.

Usage:

1. Warm vial to room temperature.
2. Depending on the amount of CTZ you want to inject use following amounts of **sterile water** (do not use PBS) to dissolve the CTZ-SOL:

<u>Desired Substrate Amount per injection</u>	<u>added volume</u>	<u>volume per injection</u>
50 µg	500 µl	10 injections a 50 µl
100 µg	250 µl	5 injections a 50 µl
250 µg	200 µl	2 injections a 100 µl
500 µg	100 µl	one injection of 100 µl

3. Vortex the vial until completely dissolved (takes up to 2 min using a low volume). 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.**

*Gaussia Luciferase has a higher turnover (higher K_m) than other luciferases, you will have to use more Coelenterazine to appreciate its potential. Native Coelenterazine is the only substrate that will work with Gaussia Luciferase. We recommend using 100-200 µg in a 25 gram mouse, more for higher signal.

