

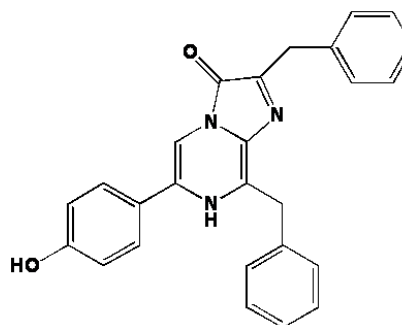
IVIS | XenoLight Rediject Coelenterazine h

Bioluminescent Reagent for *In Vivo* Imaging

Product Name: XenoLight Rediject Coelenterazine h

Part Number: 760506

Molecular Information: C₂₆H₂₁N₃O₂
Mwt: 407.5



Rediject Coelenterazine h is a bioluminescence substrate in a ready to use format developed by the *in vivo* imaging leaders to fit your laboratory workflow. With Caliper's Rediject Coelenterazine you can ensure reproducible results by minimizing variability in formulation, minimizing freeze/thaw and controlling batch to batch variation. Rediject Coelenterazine has been formulated to fit common workflow patterns and optimize results for all your experiments with Renilla luciferase. The ready to use substrate formulation allows you to concentrate on animal handling and biology.

- Pre-formulated, batch controlled Coelenterazine h for *in vivo* use
- Save substantial time and effort by minimizing pre-imaging preparation steps
- Dispensed to image 5 animals per vial (10 vials/kit)
- *In vivo* imaging quality, validated on IVIS imaging systems

Color and Form: Yellow colored solution (Coelenterazine h in Propylene glycol/citrate)

Concentration: 150 µg/mL

Volume per vial: 10 sterile vials each containing 1.2 mL of 150 µg/mL Coelenterazine h

Storage and Handling: Store at ≤ -70 °C. Just before your experiment, thaw required number of vials in a 37 °C water bath, vortex and it is ready to use. Repeated freeze thaw is not recommended. Rediject Coelenterazine h supports intravenous (i.v.) or intraperitoneal (i.p.) injection.

For intravenous injections, recommended dose is 15 µg/mouse (100 µL/mouse). Load a 1 mL syringe directly from the vial and inject using a 25 gauge needle or higher. Image the mice as soon as possible for peak signal with intravenous injection. For intraperitoneal injection, recommended dose is 30 µg/mouse (200 µL/mouse).

Note: After intravenous injection of Rediject Coelenterazine h mice might experience spasms for a brief period, but should recover shortly.

Coelenterazine Optimized for *In Vivo* Imaging

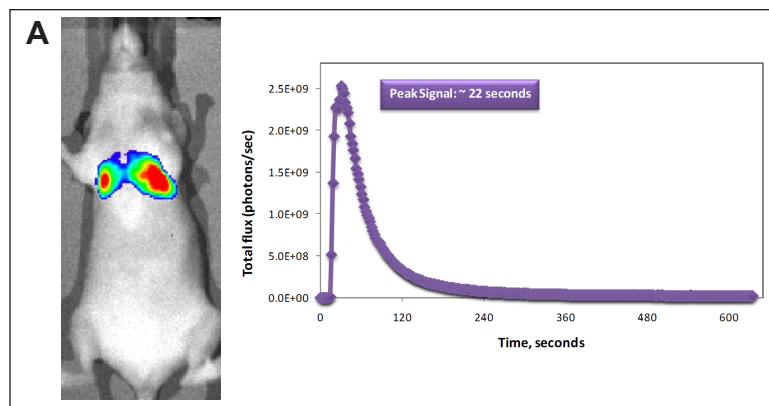


Figure 1. Rediject Coelenterazine has been optimized for in vivo use with IVIS imaging systems. **(A)** 5 pmol BRET Qdot 700* were injected intravenously in a nu/nu mouse. 10 minutes post BRET Qdot injection 15 µg/mouse Coelenterazine h was injected intravenously. Chart shows peak signal was observed right after injection at ~ 22 seconds followed by rapid clearance. Images were taken with IVIS Kinetic. **(B)** 1,2 and 4 pmol BRET Qdot 655 were injected subcutaneously in a nu/nu mouse. 10 minutes post BRET Qdot injection 10 µg/mouse Coelenterazine was injected intraperitoneally. Chart shows that peak signal was reached around 27 minutes post i.p. injection of Coelenterazine.

*BRET Qdot™ 700 were provided by Zymera Inc., 5941 Optical Court, San Jose, CA (<http://zymera.com>)
Qdot™ is a registered trademark of Life Technologies, 5791 Van Allen Way, Carlsbad, CA 92008

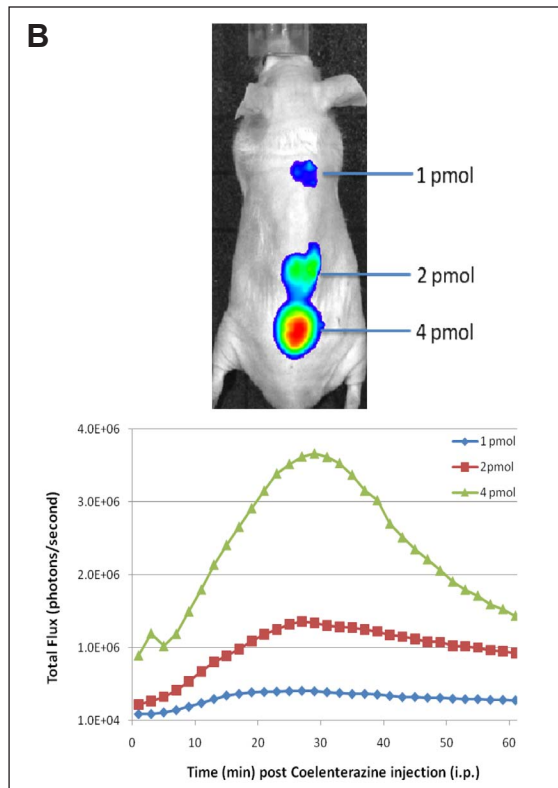
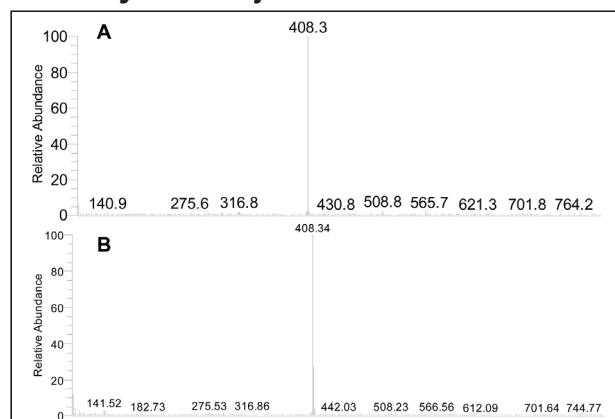


Figure 2. Stability of Rediject Coelenterazine h stored at -80 °C after 14 weeks. Chart shows Mass Spec data **(A)** from Rediject Coelenterazine (T=0) and Rediject Coelenterazine stored at -80 °C for 14 weeks **(B)**. Both charts show a single peak, suggesting Rediject Coelenterazine is stable even after 14 weeks at -80 °C.

Stability of Rediject Coelenterazine h



Check out our other Xenolight reagents, all of which are optimized for *in vivo* imaging with IVIS systems

Catalog Number	Product Name	Quantity
760504	XenoLight Rediject D-Luciferin	50 injections
760505	XenoLight Rediject D-Luciferin Ultra	50 injections
760506	XenoLight Rediject Coelenterazine h	50 injections
122796	XenoLight D-Luciferin - K ⁺ Salt	1 g
125673	XenoLight CF 680 Fluorescent Labeling Kit	3 labelings
125674	XenoLight CF 750 Fluorescent Labeling Kit	3 labelings
125675	XenoLight CF 770 Fluorescent Labeling Kit	3 labelings
125676	XenoLight CF 680 NIR Fluorescent Dye	1 µmole
125677	XenoLight CF 750 NIR Fluorescent Dye	1 µmole
125678	XenoLight CF 770 NIR Fluorescent Dye	1 µmole
125964	XenoLight CF DiR	25 mg