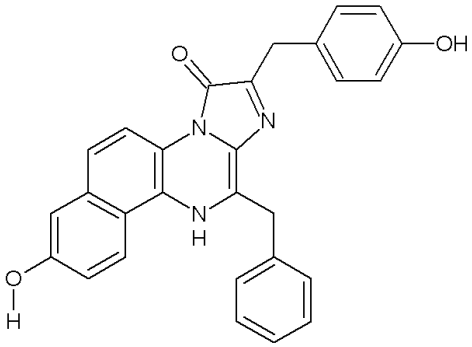
Manual for v-Coelenterazine

Cat. #370 v-COELENTERAZINE MW 447.48



General Notes: v-Coelenterazine (v-CTZ or CTZ v) is a synthetic analogue of Coelenterazine with an additional benzyl ring. This compound is known to shift the bioluminescent emission 40 nm up with *Renilla* luciferase (please see next page).

Storage and Shelf-Life: It is best stored as completely dry powder under Argon in air-tight O-ring plastic tubes at -20°C or for longer storage at -80°C, protected from light. Oxygen and moisture will lead to auto-oxidation of CTZ over time, reducing its overall activity.

Dissolving and dilution: It is always best to make FRESH SOLUTIONS immediately before luminometer assays or experiments.

1. Dissolve lyophilized **v-Coelenteraine** in **NanoFuel-V Solvent (Cat.#398)** as a 1 mg/ml solution.
2. Use this stock solution to make an aqueous solution in PBS or TBS (e.g. 100 µM for luminometer assays equal to 447.5 µl (1 mg/ml) in 10 ml PBS).
3. Store dissolved v-Coelenterazine at -80°C, do not store the aqueous working solution (it will oxidize over time).

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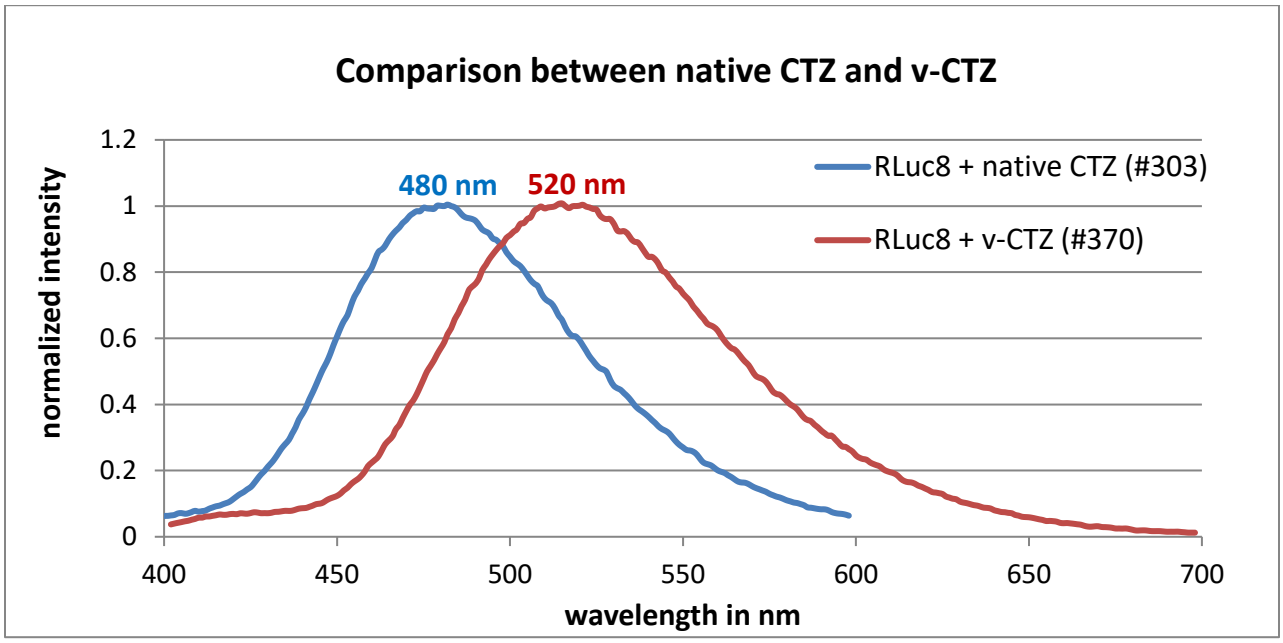
Properties of Nanolight™ v-Coelenterazine Cat. #370

A. V-CTZ is shifting the emission maximum by 40nm to longer wavelengths from 480nm to 520nm



B. V-Coelenterazine can be utilized by different Renilla Luciferase variants