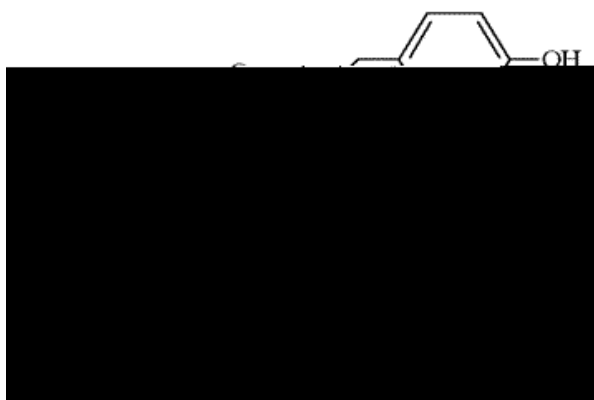


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**How to use Coelenterazine and its analogs:  
Catalog Numbers NF-CTZ-FB & NF-BCTZ-FB**

**Native Coelenterazine (nCTZ)** FW= 423.5 ((2-(p-Hydroxybenzyl)-6-(p-hydroxyphenyl)-8-benzyl-imidazol[1,2-a]pyrazin-3-(7H)-one



**Benzyl Coelenterazine (hCTZ)** FW=407.5 (hCTZ is then dehydroxy derivative the R1 right handed Phenyl group –OH is replaced by –H)

**General Notes:**

Once mixed, coelenterazine (CTZ) solutions oxidize and gradually decay to their coelenteramide oxidation product. Dry coelenterazine compounds are only sparingly soluble in aqueous solutions, and must be dissolved in alcohols, propylene glycol, or straight B-mecaptoethanol prior to making aqueous buffer solutions. Mecaptoethanol solutions may inhibit or destroy luciferase activity but are fine for Aquorin and Obelin (calcium activated photoprotein) applications.

If DMSO is used in conjunction with CTZ you must mix and use immediately, DMSO will decompose the CTZ and will not give uniform repeatable results.

