

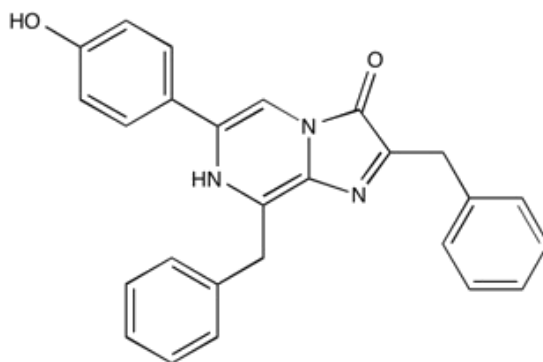
**Catalog # 10-1496**

**Coelenterazine-h**

CAS# 50909-86-9

2,8-Dibenzyl-6-(4-hydroxyphenyl)imidazole[1,2-a]pyrazin-3(7H)-one  
2-Deoxycoelenterazine

Lot # X106431



Renilla luciferase catalyzes coelenterazine oxidation by oxygen to produce light. Coelenterazine-h produces 10-fold higher light output than native coelenterazine. Coelenterazine-h also undergoes autoluminescence which is enhanced by superoxide anion and peroxynitrite in cells. May be used in gene reporter assays, live cell assays and biochemical assays (ELISA, BRET etc).

- 1) Shimomura *et al.* (1989), *Semi-synthetic aequorins with improved sensitivity to Ca<sup>2+</sup> ions*; *Biochem. J.*, **261** 913
- 2) Nakajima-Shimada *et al.* (1991), *Monitoring of intracellular calcium in Saccharomyces cerevisiae with an apoaequorin cDNA expression system*; *Proc. Natl. Acad. Sci. USA*, **88** 6878
- 3) Inouye *et al.* (1992), *Monitoring gene expression in Chinese hamster ovary cells using secreted apoaequorin*; *Anal. Biochem.*, **201** 114

**PHYSICAL DATA**

Molecular Weight:	407.46
Molecular Formula:	C <sub>26</sub> H <sub>21</sub> N <sub>3</sub> O <sub>2</sub>
Purity:	97% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml), or Methanol (up to 1 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or methanol may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**