Catalog # 10-1496

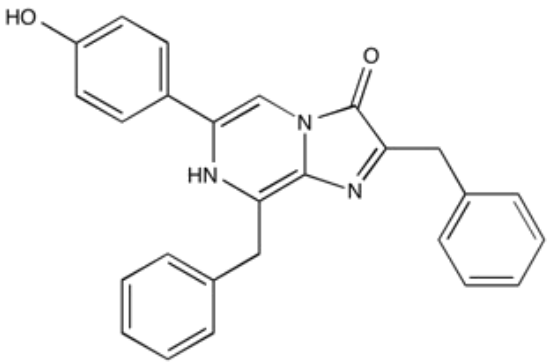
Coelentarazine-h

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 coelentarazine oxidation by oxygen to produce light. Coelentarazine-h produces 10-fold higher light output than native coelentarazine. Coelentarazine-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 Ca2+ 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:	$C_{26}H_{21}N_3O_2$
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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com