

Product Information

Coelenterazine, Purity $\geq 98\%$

Cat. No.: X24-09-YM1363

Size: 2 mg; 5 mg; 10 mg; 20 mg

MDL: MFCD00467176

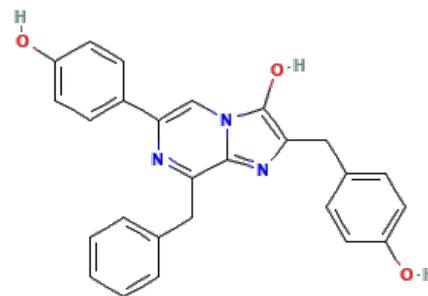
CAS Number: 55779-48-1

Compound CID: 135445694

Synonym: 55779-48-1; CLZN; Coelenteramine; Oplophorus luciferin;

8-Benzyl-6-(4-hydroxyphenyl)-2-[(4-hydroxyphenyl)methyl]imidazo[1,2-a]pyrazin-3-ol

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Coelenterazine, soluble in DMSO and ethanol and insoluble in water, is a luminescent enzyme substrate. The molecular weight of the compound is 423.46, and its molecular formula is $C_{26}H_{21}N_3O_3$.
Molecular Weight	423.46
Molecular Formula	$C_{26}H_{21}N_3O_3$
IUPAC Name	8-Benzyl-6-(4-hydroxyphenyl)-2-[(4-hydroxyphenyl)methyl]imidazo[1,2-a]pyrazin-3-ol
InChI	InChI=1S/C26H21N3O3/c30-20-10-6-18(7-11-20)15-23-26(32)29-16-24(19-8-12-21(31)13-9-19)27-22(25(29)28-23)14-17-4-2-1-3-5-17/h1-13,16,30-32H,14-15H2
InChI Key	LNCOEGVEEQDKGX-UHFFFAOYSA-N
Canonical SMILES	<chem>C1=CC=C(C=C1)CC2=NC(=CN3C2=NC(=C3O)CC4=CC=C(C=C4)O)C5=CC=C(C=C5)O</chem>
Isomeric SMILES	<chem>CC1=CC(=C(C=C1)N(C(=O)C(F)(F)F)/N=C/C2=CC(=CC=C2)OC)C</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 81 mg/mL (191.28 mM); Water: insoluble; Ethanol: 1 mg/mL (2.36 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Coelenterazine plays a key role in biochemistry and molecular biology as a substrate for various luciferases.



Storage

Store at -20°C, and keep desiccated.
