



Product Information

CFTR inhibitor IOWH032, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ395

Size: 10 mg; 25 mg; 50 mg; 100 mg

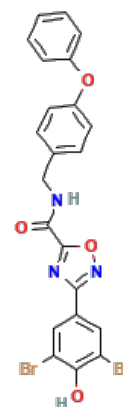
MDL: MFCD25977119

CAS Number: 1191252-49-9

Compound CID: 135565181

Synonym: 1191252-49-9; CFTR inhibitor; IOWH-032; IOWH 032

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



Product Information

Description	IOWH032, soluble in DMSO and insoluble in ethanol and water, blocks the activity of the cystic fibrosis transmembrane conductance regulator protein, which plays a crucial role in the movement of chloride ions across cell membranes. It targets CFTR.
Molecular Weight	545.18
Molecular Formula	C ₂₂ H ₁₅ Br ₂ N ₃ O ₄
Targets	CFTR: 1.01 μ M
IUPAC Name	3-(3,5-Dibromo-4-hydroxyphenyl)-N-[(4-phenoxyphenyl)methyl]-1,2,4-oxadiazole-5-carboxamide
InChI	InChI=1S/C22H15Br2N3O4/c23-17-10-14(11-18(24)19(17)28)20-26-22(31-27-20)21(29)25-12-13-6-8-16(9-7-13)30-15-4-2-1-3-5-15/h1-11,28H,12H2,(H,25,29)
InChI Key	DSFNLJXHXBKDS-UHFFFAOYSA-N
Canonical SMILES	C1=CC=C(C=C1)OC2=CC=C(C=C2)CNC(=O)C3=NC(=NO3)C4=CC(=C(C(=C4)Br)O)Br
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 88 mg/mL (161.41 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	IOWH032 is applied to inhibit CFTR, aiding studies on cystic fibrosis and related chloride ion transport dysfunctions.



Storage

Store at -20°C, and keep desiccated.
