



Product Information

CFTR inhibitor CFTR corrector 2, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ549

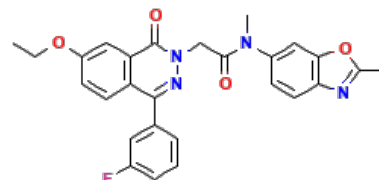
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 1628416-28-3

Compound CID: 86298861

Synonym: 1628416-28-3; CFTR inhibitor

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



Product Information

Description	CFTR corrector 2, soluble in DMSO and ethanol and insoluble in 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.
Molecular Weight	486.49
Molecular Formula	C ₂₇ H ₂₃ FN ₄ O ₄
IUPAC Name	2-[7-Ethoxy-4-(3-fluorophenyl)-1-oxophthalazin-2-yl]-N-methyl-N-(2-methyl-1,3-benzoxazol-6-yl)acetamide
InChI	InChI=1S/C27H23FN4O4/c1-4-35-20-9-10-21-22(14-20)27(34)32(30-26(21)17-6-5-7-18(28)12-17)15-25(33)31(3)19-8-11-23-24(13-19)36-16(2)29-23/h5-14H,4,15H2,1-3H3
InChI Key	XRPSUWYWZUQALB-UHFFFAOYSA-N
Canonical SMILES	CCOC1=CC2=C(C=C1)C(=NN(C2=O)CC(=O)N(C)C3=CC4=C(C=C3)N=C(O4)C)C5=CC(=CC=C5)F
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 32 mg/mL (65.77 mM); Water: Insoluble; Ethanol: 8 mg/mL (16.44 mM)
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	CFTR corrector 2 is a CFTR inhibitor researched for its potential to correct defective CFTR proteins, offering insights into cystic fibrosis treatments.



Storage

Store at -20°C, and keep desiccated.
