



Product Information

CFTR inhibitor PPQ-102, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ374

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

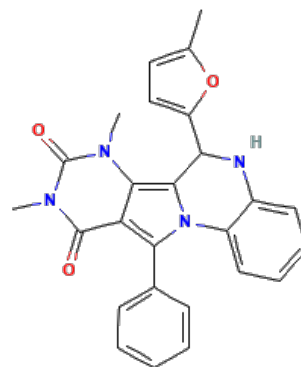
MDL: MFCD14824240

CAS Number: 931706-15-9

Compound CID: 16016583

Synonym: 931706-15-9; CFTR inhibitor; PPQ102; PPQ 102

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



Product Information

Description	PPQ-102, 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.
Molecular Weight	438.48
Molecular Formula	C ₂₆ H ₂₂ N ₄ O ₃
IUPAC Name	12,14-Dimethyl-9-(5-methylfuran-2-yl)-17-phenyl-1,8,12,14-tetrazatetracyclo[8.7.0.0.2,7.0.11,16]hepta-deca-2,4,6,10,16-pentaene-13,15-dione
InChI	InChI=1S/C26H22N4O3/c1-15-13-14-19(33-15)21-24-23-20(25(31)29(3)26(32)28(23)2)22(16-9-5-4-6-10-16)30(24)18-12-8-7-11-17(18)27-21/h4-14,21,27H,1-3H3
InChI Key	MNOOVRNGPIWJDI-UHFFFAOYSA-N
Canonical SMILES	CC1=CC=C(O1)C2C3=C4C(=C(N3C5=CC=CC=C5N2)C6=CC=CC=C6)C(=O)N(C(=O)N4C)C
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 48 mg/mL (109.47 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	PPQ-102 serves as a CFTR inhibitor explored in research on cystic fibrosis and related chloride transport mechanisms.



Storage

Store at -20°C, and keep desiccated.
