

Product Information

Metabolism inhibitor, Cytochrome P450 14a-demethylase inhibitor 1f, Purity $\geq 98\%$

Cat. No.: X24-08-YM365

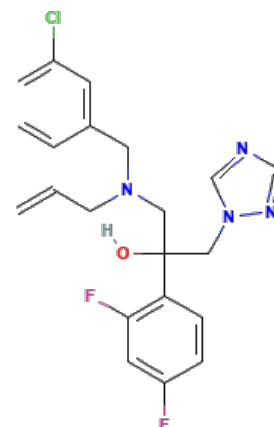
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 1155361-04-8

Compound CID: 42631370

Synonym: 1155361-04-8; 1-[(3-Chlorophenyl)methyl-prop-2-enylamino]-2-(2,4-difluorophenyl)-3-(1,2,4-triazol-1-yl)propan-2-ol

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



Product Information

Description	Cytochrome P450 14a-demethylase inhibitor 1f is an effective cell metabolism inhibitor, that has the ability to prevent the pathway of metabolism by inhibiting cytochrome P450.
Molecular Weight	418.9
Molecular Formula	C ₂₁ H ₂₁ ClF ₂ N ₄ O
IUPAC Name	1-[(3-Chlorophenyl)methyl-prop-2-enylamino]-2-(2,4-difluorophenyl)-3-(1,2,4-triazol-1-yl)propan-2-ol
InChI	InChI=1S/C21H21ClF2N4O/c1-2-8-27(11-16-4-3-5-17(22)9-16)12-21(29,13-28-15-25-14-26-28)19-7-6-18(23)10-20(19)24/h2-7,9-10,14-15,29H,1,8,11-13H2
InChI Key	AWICBISOCKDYTM-UHFFFAOYSA-N
Canonical SMILES	C=CCN(CC1=CC=CC=C1Br)CC(CN2C=NC=N2)(C3=C(C=C(C=C3)F)F)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Cytochrome P450 14a-demethylase inhibitor 1f is a metabolism inhibitor that can be studied extensively for its potential therapeutic applications in the treatment of fungal infections by disrupting ergosterol biosynthesis, which is essential for fungal cell membrane integrity.
Storage	Store at -20°C, and keep desiccated.