

Product Information

Serine protease inhibitor Alvelestat, Purity ≥98%

Cat. No.: X24-07-ZQ736

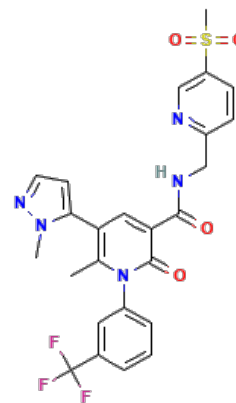
Size: 5 mg; 10 mg; 25 mg; 50 mg

CAS Number: 848141-11-7

Compound CID: 46861623

Synonym: 848141-11-7; Serine protease inhibitor; AZD9668; AZD 9668; AZD-9668

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



Product Information

Description	Alvelestat, soluble in DMSO and insoluble in ethanol and water, is a molecule that plays a crucial role in regulating various physiological processes by inhibiting the activity of serine proteases. It targets neutrophil elastase and neutrophil elastase.
Molecular Weight	545.5
Molecular Formula	C ₂₅ H ₂₂ F ₃ N ₅ O ₄ S
Targets	Neutrophil elastase: 9.4 nM (K _i); Neutrophil elastase: 12 nM
IUPAC Name	6-Methyl-5-(2-methylpyrazol-3-yl)-N- -[(5-methylsulfonylpyridin-2-yl)methyl]-2-oxo-1-[3-(trifluoromethyl)phenyl]pyridine-3-carboxamide
InChI	InChI=1S/C25H22F3N5O4S/c1-15-20(22-9-10-31-32(22)2)12-21(23(34)30-13-17-7-8-19(14-29-17)3 8(3,36)37)24(35)33(15)18-6-4-5-16(11-18)25(26,27)28/h4-12,14H,13H2,1-3H3,(H,30,34)
InChI Key	QNQZWEGMKJBHEM-UHFFFAOYSA-N
Canonical SMILES	CC1=C(C=C(C(=O)N1C2=CC=CC(=C2)C(F)(F)F)C(=O)NCC3=NC=C(C=C3)S(=O)(=O)C)C4=CC=NN4C
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 87 mg/mL (159.47 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

Alvelestat inhibits neutrophil elastase, relevant in treating diseases like COPD.

Storage

Store at -20°C, and keep desiccated.
