

Product Name	: Alvelestat
Synonyms	: AZD-9668; MPH966; Alvelestat
Cat No.	: M17609
CAS Number	: 848141-11-7
Molecular Formula	: C ₂₅ H ₂₂ F ₃ N ₅ O ₄ S
Formula Weight	: 545.53
Chemical Name	: 6-methyl-5-(1-methyl-1H-pyrazol-5-yl)-N-((5-(methylsulfonyl)pyridin-2-yl)methyl)-2-oxo-1-(3-(trifluoromethyl)phenyl)-1,2-dihydropyridine-3-carboxamide
Description	Avelestat, also known as AZD9668 and MPH-966, is a novel, oral inhibitor of neutrophil elastase (NE), an enzyme implicated in the signs, symptoms, and disease progression in NE-driven respiratory diseases such as bronchiectasis and chronic obstructive pulmonary disease via its role in the inflammatory process, mucus overproduction, and lung tissue damage. In cell-based assays, AZD9668 inhibited plasma NE activity in zymosan-stimulated whole blood. AZD9668 has the potential to reduce lung inflammation and the associated structural and functional changes in human diseases.
Pathway	: Proteasome/Ubiquitin
Target	: Proteasome
Receptor	: neutrophil elastase; neutrophil elastase
Solubility	: DMSO : ≥ 33 mg/mL; 60.49 mM
SMILES	: <chem>Cc1nc(=O)c(cc1c1n(ncc1)C)C(=O)NCc1ccc(cn1)S(=O)(=O)C1cc(ccc1)C(F)(F)F</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Stevens T, et al. J Pharmacol Exp Ther. 2011, 339(1), 313-320.

