Lonodelestat TFA

MedChemExpress

Cat. No.:	НҮ-Р3293А				
Molecular Formula:	$C_{73}H_{112}F_{3}N_{15}O_{21}$	HO CO			
Molecular Weight:	1592.75				
Sequence:	cyclo[ASIPPQKYPPNle(bu)ET]				
Target:	Elastase				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Sealed storage, away from moisture and light, under nitrogen				
	Powder -80°C 2 years				
	-20°C 1 year				
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture				
	and light, under nitrogen)				

SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solu	1 mM	0.6278 mL	3.1392 mL	6.2784 mL
	5 mM	0.1256 mL	0.6278 mL	1.2557 mL
	10 mM	0.0628 mL	0.3139 mL	0.6278 mL

Diological			
Description	Lonodelestat TFA (POL6014 TFA) is a potent, orally active and selective peptide inhibitor of human neutrophil elastase (hNE). Lonodelestat TFA has the potential for the research of cystic fibrosis (CF) ^{[1][2][3]} .		
In Vivo	Lonodelestat (POL6014) significantly and efficiently reduced the inflammatory processes of ALI in HNE treated mice ^[1] . Lonodelestat (POL6014, 0.1, 0.5, 2 and 10 mg/kg, intranasally administered) dose-dependently and significantly reduces the number of macrophages, epithelial cells, neutrophils and lymphocytes recovered in BAL. The maximum inhibition was reached at 2 mg/kg in reducing neutrophils by 65% (p<0.001), epithelial cells by 68% (p<0.001), macrophages by 33% (p<0.001) and lymphocytes by 77% (p<0.001) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Lagente V, et al. A novel Protein Epitope Mimetic (PEM) neutrophil elastase (NE) inhibitor, POL6014, inhibits human NE-induced acute lung injury in mice. ATS, San

Diego, May 15-20, 2009.

[2]. Odile Sellier-Kessler, et al. Inhibition of lung inflammation by a protein epitope mimetic (PEM) neutrophil elastase inhibitor, POL6014, in a sub-chronic tobacco smoke (TS) model in mice. European Respiratory Journal 2013 42: 1762.

[3]. Barth P, et al. Single dose escalation studies with inhaled POL6014, a potent novel selective reversible inhibitor of human neutrophil elastase, in healthy volunteers and subjects with cystic fibrosis. J Cyst Fibros. 2020 Mar;19(2):299-304.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA