Product Name	:	AM103
Synonyms	:	AM 103
Cat No.	:	M26054
CAS Number	:	1147872-22-7
Molecular Formula	:	C36H40N3NaO4S
Formula Weight	:	633.8
Chemical Name	:	——
Description	:	AM103 is an effective and selective inhibitor of FLAP (IC50 = 4.2 nM).(In Vitro):AM103 is against the 5 most common CYP isoforms with IC50s >30 μM for CYP2D6 and >50 μM for CYP3A4, CYP2C9, CYP2C19, and CYP1A2. AM103 shows IC50s of 350, 113, and 117 nM against human, rat, and mouse whole-blood ionophore-stimulated LTB4 production, respectively.(In Vivo):AM103 has high bioavailability of 64%, low clearance of 2.9 mL/min/kg, low volume of distribution of 0.41 L/kg, and a long i.v. half-life of 5.2 h in dogs. AM103 (10 mg/kg) inhibits the increase in CysLTs and EPO by approximately 60% and reduces the level of IL-5. In a model of chronic lung inflammation using ovalbumin-primed and challenged BALB/c mice, AM103 reduces eosinophil peroxidase, CysLTs, and IL-5 in the bronchoalveolar lavage fluid. AM103 increases survival time in mice exposed to a lethal intravenous injection of platelet-activating factor. In the rat lung challenged in vivo with calcium ionophore, AM103 inhibits LTB4 and cysteinyl leukotriene production with ED50 values of 0.8 and 1 mg/kg, respectively.
Pathway	:	Immunology/Inflammation
Target	:	FLAP
Receptor	:	——
Solubility	:	——
SMILES	:	[NaH].COc1ccc(cn1)-c1ccc(Cn2c(CC(C)(C)C(O)=O)c(SC(C)(C)C)c3cc(OCc4ccccn4)ccc23)cc1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1.?Cuong V Nguyen, et al. Surface potential of 1-hexanol solution: comparison with methyl isobutyl carbinol. J Phys Chem B. 2013 Jun 27;117(25):7615-20.