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DATASHEET

PF 3716556

Product overview

Name	PF 3716556
Cat No	HB1123
Biological action	Antagonist
Purity	>98%
Description	Potent, selective acid pump antagonist

Biological Data

Biological description	Potent and selective acid pump antagonist (pIC ₅₀ values are 6.03, 6.04 and 6.01 for Porcine, Canine and Human recombinant ion leaky assay respectively). Competitively inhibits H ⁺ , K ⁺ -ATPase but exhibits no activity against Na ⁺ , K ⁺ -ATPase. Displays greater potency in acidic conditions. Also inhibits gastric acid secretion in dogs.
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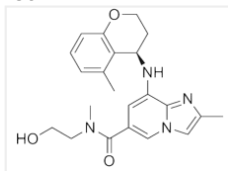
Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	8-[[[(4 <i>R</i>)-3,4-Dihydro-5-methyl-2 <i>H</i> -1-benzopyran-4-yl]amino]- <i>N</i> -(2-hydroxyethyl)- <i>N</i> ,2-dimethyl-imidazo[1,2- <i>a</i>]pyridine-6-carboxamide
Molecular Weight	394.47

Chemical structure



Molecular Formula	C ₂₂ H ₂₆ N ₄ O ₃
CAS Number	928774-43-0
PubChem identifier	25134521
SMILES	OCCN(C)C(=O)C1=CC=C(C=C1N2C=CN(C)C2)N3C=CC=C3OCC4=CC=CC=C4
InChiKey	YBHKBMJREUZHOV-QGZVFWFLSA-N

References

***N*-(2-hydroxyethyl)-*N*,2-dimethyl-8-[[[(4*R*)-5-methyl-3,4-dihydro-2*H*-chromen-4-yl]amino]imidazo[1,2-*a*]pyridine-6-carboxamide (PF-03716556), a novel, potent, and selective acid pump antagonist for the treatment of gastroesophageal reflux disease.**

Mori H *et al* (2009) J Pharmacol Exp Ther 328(2)

PubMedID [18981288](https://pubmed.ncbi.nlm.nih.gov/18981288/)

