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DATASHEET

SCH 28080

Product overview

Name	SCH 28080
Cat No	HB1124
Biological action	Inhibitor
Purity	>99%
Description	Potent, competitive gastric K^+ / H^+ -ATPase inhibitor

Images

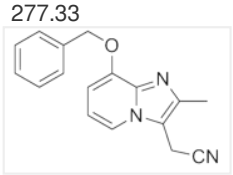
Biological Data

Biological description	Potent and competitive gastric K^+ / H^+ -ATPase inhibitor (IC_{50} = 20 nM). Competes against K^+ for the K^+ recognition site. Able to distinguish different types of ATPases. Displays antiulcer, antisecretory and cytoprotective properties.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in ethanol (10mM) or DMSO (25mM)
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	2-Methyl-8-(phenylmethoxy)imidazo[1,2-*a*]pyridine-3-acetonitrile
Molecular Weight	277.33
Chemical structure	
Molecular Formula	$C_{17}H_{15}N_3O$
CAS Number	76081-98-6
PubChem identifier	108137

SMILES	CC1=C(CC#N)N2C=CC=C(OCC3=CC=CC=C3)C2=N1
InChiKey	PYKJFEPAUKAXNN-UHFFFAOYSA-N

References

Gastric antisecretory and cytoprotective activities of SCH 28080.

Long JF *et al* (1983) J Pharmacol Exp Ther 226(1)
PubMedID 6864535

Studies on the mechanism of action of the gastric microsomal (H+ + K+)-ATPase inhibitors SCH 32651 and SCH 28080.

Scott CK *et al* (1987) Biochem Pharmacol 36(1)
PubMedID 3026407

SCH28080, a K+-competitive inhibitor of the gastric H,K-ATPase, binds near the M5-6 luminal loop, preventing K+ access to the ion binding domain.

Vagin O *et al* (2002) Biochemistry 41(42)
PubMedID 12379118