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## DATASHEET

SCH 28080

### Product overview

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

### Images



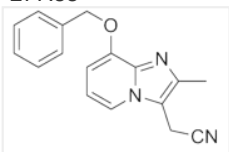
### Biological Data

<b>Biological description</b>	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.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in ethanol (10mM) or DMSO (25mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	2-Methyl-8-(phenylmethoxy)imidazo[1,2-a]pyridine-3-acetonitrile
<b>Molecular Weight</b>	277.33
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{17}H_{15}N_3O$
<b>CAS Number</b>	76081-98-6
<b>PubChem identifier</b>	108137

SMILES  
InChiKey

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

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## 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<sup>+</sup> + K<sup>+</sup>)-ATPase inhibitors SCH 32651 and SCH 28080.

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

PubMedID [3026407](#)

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

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

PubMedID [12379118](#)

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