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DATASHEET

Repaglinide

Product overview

Name	Repaglinide
Cat No	HB1106
Alternative names	AG-EE 623ZW
Biological action	Blocker
Purity	>99%
Description	Potent SUR1 / K_{ir}6.2 channel blocker

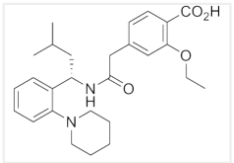
Biological Data

Biological description	Potent SUR1 / K_{ir}6.2 channel blocker (K_D = 0.42 nM). Also binds to sulphonylurea receptor 1 (SUR1) alone (K_D = 59 nM). Displays antidiabetic properties.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100mM) or ethanol (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	2-Ethoxy-4-[2-[[(1*S*)-3-methyl-1-[2-(1-piperidinyl)phenyl]butyl]amino]-2-oxoethyl]benz oic acid
Molecular Weight	452.59
Chemical structure	
Molecular Formula	$C_{27}H_{36}N_2O_4$
CAS Number	135062-02-1
PubChem identifier	65981
SMILES	O=C(CC3=CC(OCC)=C(C(O)=O)C=C3)N[C@@H](CC(C)C)C1=CC=CC=C1N2CCCCC2
InChiKey	FAEKWTJYAYMJKF-QHCPKHFHSA-N

References

Kir6.2-dependent high-affinity repaglinide binding to beta-cell K(ATP) channels.

Hansen AM *et al* (2005) Br J Pharmacol 144(4)
PubMedID 15678092

Antioxidative and anti-inflammatory effects of repaglinide in plasma of diabetic animals.

Gumieniczek A *et al* (2005) Pharmacol Res 52(2)

PubMedID 15967382

Novel anti-inflammatory effects of repaglinide in rodent models of inflammation.

Tung D *et al* (2011) Pharmacology 88(5-6)
PubMedID 22086064