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DATASHEET

NS 1619

Product overview

Name	NS 1619
Cat No	HB1048
Biological action	Activator
Purity	>98%
Description	Potent, selective K_{Ca}1.1 channel activator

Images

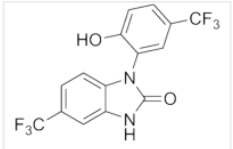
Biological Data

Biological description	Potent and selective K_{Ca}1.1 channel activator (EC_{50} = 3.6 µM). Selectively increases the blood brain barrier permeability. Displays vasorelaxant 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	1,3-Dihydro-1-[2-hydroxy-5-(trifluo romethyl)phenyl]-5-(trifluoromethyl)-2*H*-benzimidazol-2-one
Molecular Weight	362.23
Chemical structure	
Molecular Formula	$C_{15}H_8F_6N_2O_2$
CAS Number	153587-01-0
PubChem identifier	4552
SMILES	O=C2NC1=CC(C(F)(F)F)=CC=C1N2C3=CC(C(F)(F)F)=CC=C3O

InChiKey	YLFMCMWKHSDUCT-UHFFFAOYSA-N

References

Large-conductance K+ channel openers NS1619 and NS004 as inhibitors of mitochondrial function in glioma cells.

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Role of ROS/RhoA/PI3K/PKB signaling in NS1619-mediated blood-tumor barrier permeability increase.

Gu YT *et al* (2012) J Mol Neurosci 48(1)
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Biagi G *et al* (2000) Eur J Med Chem 35(7-8)
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Large conductance Ca2+ -activated K+ channel activation with NS1619 decreases myogenic and neurogenic contractions of rat detrusor smooth muscle.

Soder RP *et al* (2011) Eur J Pharmacol 670(1)
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