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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 ($EC_{50} = 3.6 \mu M$). Selectively increases the blood brain barrier permeability. Displays vasorelaxant properties
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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-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2H-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	<chem>O=C2NC1=CC(C(F)(F)F)=CC=C1N2C3=CC(C(F)(F)F)=CC=C3O</chem>

References

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

Debska G *et al* (2003) *Biochem Pharmacol* 65(11)

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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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5-(4'-Substituted-2'-nitroanilino)-1,2,3-triazoles as new potential potassium channel activators. I.

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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