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DATASHEET

NS 309

Product overview

Name	NS 309
Cat No	HB1049
Biological action	Activator
Purity	>98%
Description	Potent, selective $K_{Ca3.1}$ / K_{Ca2} channel subfamily activator

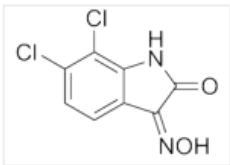
Biological Data

Biological description	Potent and selective $K_{Ca3.1}$ channel and K_{Ca2} channel subfamily activator ($EC_{50} = 0.3 \mu\text{M}$ for $K_{Ca2.3}$). Exhibits little or no activity at $K_{Ca1.1}$ channels. Displays >1000 fold higher potency than 1-EBIO.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (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	6,7-Dichloro-1H-indole-2,3-dione 3-oxime
Molecular Weight	231.04
Chemical structure	
Molecular Formula	$C_8H_4Cl_2N_2O_2$
CAS Number	18711-16-5
PubChem identifier	11637204
SMILES	<chem>C1C=C2C(C(N2)=O)=NO)=CC=C1Cl</chem>
InChiKey	CVOUSAVHMDXCKG-UHFFFAOYSA-N

References

Activation of human IK and SK Ca^{2+} -activated K^{+} channels by NS309 (6,7-dichloro-1H-indole-2,3-dione 3-oxime).

Strøbaek D *et al* (2004) *Biochim Biophys Acta* 1665(1-2)

PubMedID [15471565](#)

NS309 decreases rat detrusor smooth muscle membrane potential and phasic contractions by activating SK3 channels.

Parajuli SP *et al* (2013) *Br J Pharmacol* 168(7)

PubMedID

23145946

Selective positive modulation of the SK3 and SK2 subtypes of small conductance Ca²⁺-activated K⁺ channels.

Hougaard C *et al* (2007) Br J Pharmacol 151(5)

PubMedID

17486140
