Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

NS 309

Product overview

Name	NS 309
Cat No	HB1049
Biological action	Activator
Purity	>98%
Description	Potent, selective $K_{Ca}3.1$ / $K_{Ca}2$ channel subfamily activator

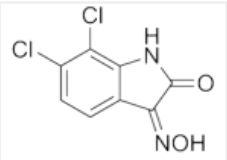
Biological Data

Biological description	Potent and selective $K_{Ca}3.1$ channel and $K_{Ca}2$ channel subfamily activator (EC_{50} = 0.3 µM for $K_{Ca}2.3$). Exhibits little or no activity at $K_{Ca}1.1$ channels. Displays >1000 fold higher potency than 1-EBIO.

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-1*H*-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	ClC1=C2C(C(C(N2)=O)=NO)=CC=C1Cl
InChiKey	CVOUSAVHMDXCKG-UHFFFAOYSA-N

References

Activation of human IK and SK Ca2+ -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