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

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

customercare-usa@hellobio.com

DATASHEET

NS 1643

Product overview

Name	NS 1643
Cat No	HB1066
Biological action	Activator
Purity	>98%
Description	K_v11.1 channel activator

Images

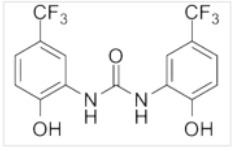
Biological Data

Biological description	K_v11.1 channel activator (EC_{50} = 10.5 µM). Also activates K_v11.2 channels via different mechanism and K_v11.3 channels. A diphenylurea derivative that irreversibly inhibits cell proliferation.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in ethanol (100mM) or DMSO (25mM)
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	*N,N'-Bis*[2-hydroxy-5-(trifluoromethy l)phenyl]urea
Molecular Weight	380.24
Chemical structure	
Molecular Formula	$C_{15}H_{10}F_6N_2O_3$
CAS Number	448895-37-2
PubChem identifier	10177784
SMILES	OC1=C(NC(NC2=C(O)C=CC(C(F)(F)F)=C2)=O)C=C(C(F)(F)F)C=C1

InChiKey	NJFVQMRYJZHGME-UHFFFAOYSA-N

References

Activation of human ether-a-go-go-related gene potassium channels by the diphenylurea 1,3-bis-(2-hydroxy-5-trifluoromethyl-phenyl)-urea (NS1643).

Hansen RS *et al* (2006) Mol Pharmacol 69(1)
PubMedID 16219910

Activation of ERG2 potassium channels by the diphenylurea NS1643.

Elmedyb P *et al* (2007) Neuropharmacology 53(2)
PubMedID 17610913

Potassium channel activation inhibits proliferation of breast cancer cells by activating a senescence program.

Lansu K *et al* (2013) Cell Death Dis 4
PubMedID 23744352

Effects of the small molecule HERG activator NS1643 on Kv11.3 channels.

Bilet A *et al* (2012) PLoS One 7(11)
PubMedID 23226420