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DATASHEET

NS 1643

Product overview

Name	NS 1643
Cat No	HB1066
Biological action	Activator
Purity	>98%
Description	K _v 11.1 channel activator

Images



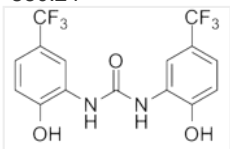
Biological Data

Biological description	K _v 11.1 channel activator (EC ₅₀ = 10.5 μM). Also activates K _v 11.2 channels via different mechanism and K _v 11.3 channels. A diphenylurea derivative that irreversibly inhibits cell proliferation.
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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	<i>N,N</i> -Bis[2-hydroxy-5-(trifluoromethyl)phenyl]urea
Molecular Weight	380.24
Chemical structure	
Molecular Formula	C ₁₅ H ₁₀ F ₆ N ₂ O 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

Chemical name
InChiKey

N,N-Bis[2-hydroxy-5-(trifluoromethyl)phenyl]urea
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)

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Activation of ERG2 potassium channels by the diphenylurea NS1643.

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

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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](#)
