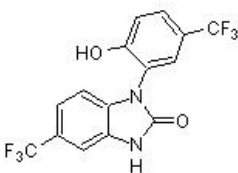


Product datasheet

NS 1619, $K_{Ca}1.1$ channel activator ab141824

2 References 1 Image

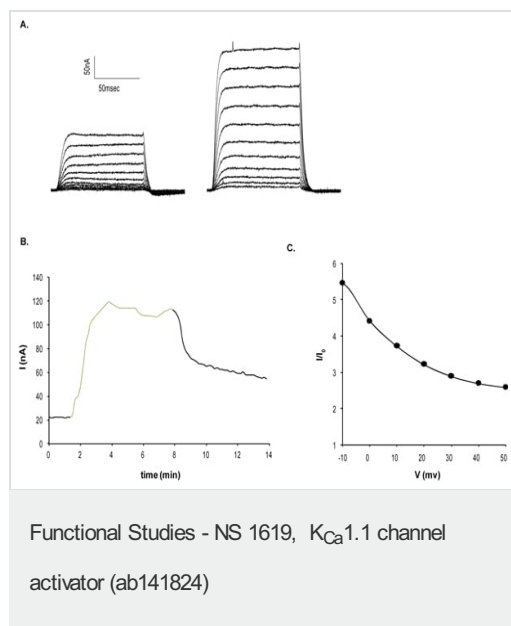
Overview

Product name	NS 1619, $K_{Ca}1.1$ channel activator
Description	Potent and selective $K_{Ca}1.1$ channel activator
Biological description	Potent and selective $K_{Ca}1.1$ channel activator. Induces a concentration-dependent decrease in mitochondrial membrane potential ($EC_{50} = 3.6 \mu M$).
Purity	> 98%
CAS Number	153587-01-0
Chemical structure	

Properties

Chemical name	3-[2-Hydroxy-5-(trifluoromethyl)phenyl]-6-(trifluoromethyl)-1 <i>H</i> -benzimidazol-2-one
Molecular weight	362.23
Molecular formula	$C_{15}H_8F_6N_2O_2$
PubChem identifier	4552
Storage instructions	Store at $-20^{\circ}C$. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in ethanol to 100 mM and in DMSO to 100 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at $-20^{\circ}C$. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>C1=CC2=C(C=C1C(F)(F)F)NC(=O)N2C3=C(C=CC(=C3)C(F)(F)F)O</chem>

Images



NS-1619 blocks K_{Ca}1.1 currents in *Xenopus* oocytes.

A. Families of K_{Ca}1.1 channel current responses to increasing voltage step stimulation (from -50 mV to +50 mV), before (left) and during (right) application of 100 μ M NS-1619 (ab141824). Currents were elicited by 100 ms voltage step from -100mV applied every 10 sec. B. Time course of current amplitude at 0 mV before, during application of 100 μ M NS-1619 (green) and upon wash, demonstrating the current amplitude enhancement. C. Voltage dependence of K_{Ca}1.1 channel activity enhancement.

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