



NS1652

Catalog No: tcsc0018395

Availa	able Sizes		
Size: 1mg			
Size: 5mg			
Size: 10mg			
Specif	fications		
CAS No: 1566-81-0			
Formula: C ₁₅ H ₁₁ F ₃ N ₂ O ₃	3		
Pathway: Membrane Tra	ansporter/Ion Channel		
Target: Chloride Chan	nnel		
Purity / Grad >98%	de:		
Solubility: 10 mM in DMS	50		
Observed Mo	olecular Weight:		

Product Description

NS1652 is a reversible **anion conductance** inhibitor, blocks **chloride channel**, with an IC_{50} of 1.6 μ M in human and mouse red blood cells.



IC50 & Target: IC50: 1.6 μM (chloride channel, human and mouse red blood cell) $^{[1]}$

In Vitro: NS1652 potently inhibits the chloride conductance (IC $_{50}$, 1.6 μ M) in human and mouse red blood cells, but only weakly inhibits VRAC (IC $_{50}$, 125 μ M) in HEK293 cells. NS1652 markedly blocks the NO production with an IC $_{50}$ of 3.1 μ M in BV2 cells. NS1652 also down-regulates iNOS expression at 3 μ M, and completely abolishes at 10 μ M in BV2 cells^[1]. NS1652 (0, 1.0, 3.3, 10, and 20 μ M) causes increasing hyperpolarization due to inhibition of the chloride conductance in normal erythrocytes. NS1652 lowers the net KCl loss from deoxygenated sickle cells from about 12 mM cells/h to about 4 mM cells/h. NS1652 (20 μ M) completely and reversiblely inhibits the red cell Cl⁻conductance^[2].

In Vivo: NS1652 (50 mg/kg, i.v.) blocks murine erythrocyte Cl^- conductance by >90% in mice^[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!