

SN 6

Catalog No: tcsc0029062

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:

415697-08-4

Formula:

 $C_{20}H_{22}N_2O_5S$

Pathway: Membrane Transporter/Ion Channel

Target: Na+/Ca2+ Exchanger

Purity / Grade:

Solubility:

DMSO : 62.5 mg/mL (155.29 mM; Need ultrasonic); H2O :

Observed Molecular Weight:

402.46

Product Description

SN 6 is a selective Na^+/Ca^{2+} exchanger (NCX) inhibitor, and inhibits ${}^{45}Ca^{2+}$ uptake by NCX1, NCX2, and NCX3, with IC_{50} s of 2.9, 16, and 8.6 μ M, respectively.



IC50 & Target: IC50[2.9 μM (NCX1), 16 μM (NCX2), 8.6 μM (NCX3[)¹]

In Vitro: SN 6 is a selective Na⁺/Ca²⁺ exchanger inhibitor, which inhibits the initial rate of ⁴⁵Ca²⁺ uptake into NCX1, NCX2, and NCX3 transfectants with IC₅₀ values of 2.9 \pm 0.12, 16 \pm 1.1, and 8.6 \pm 0.27 μ M. SN 6 (up to 30 μ M) also less potently inhibits muscarinic acetylcholine receptor, with a higher IC₅₀ of 18 μ M. SN 6 (0.3-30 μ M) completely inhibits the initial rate of Na⁺₁-dependent ⁴⁵Ca²⁺ uptake into Na⁺-loaded sarcolemmal vesicles in a dose dependent manner (IC₅₀, 5.3 \pm 0.37 μ M). SN 6 (0.3-10 μ M) dose-dependently protects against the hypoxia/reoxygenation-induced LDH release in parental LLC-PK1 cells and NCX1 transfectants but not in K229Q transfectants^[1]. SN 6 (1-30 μ M) and 1.9 μ M, respectively. SN 6 also inhibits bidirectional current (I_{NCX}) in a [Na⁺]i concentration-dependent manner, with IC₅₀ values of 2.3 μ M and 1.9 μ M, and 1.1 μ M at 10 mM, 20 mM, and 30 mM [Na⁺]i, respectively^[2]. SN 6 inhibits hypoxia/reoxygenation-induced LDH release with an IC₅₀ value of 0.63 \pm 0.15 μ M in NCX1 transfectants [3].



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