Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

SN 2

Catalog No: tcsc3229

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
823218-99-1

Formula:
$C_{17}H_{21}NO$

Pathway:
Membrane Transporter/Ion Channel

Target:
TRP Channel

Purity / Grade:
>98%

Solubility:
DMSO : 23.5 mg/mL (92.03 mM; Need ultrasonic and warming)

Observed Molecular Weight:
255.35

Product Description

SN 2 is a novel and potent activator of **TRPML3** ion channel with **EC_{50}** of 1.8±0.13 μM.

IC50 & Target: EC50: 1.8±0.13 μM (TRPML3), >29.9 μM (TRPML1)[1]

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In Vitro: The conductance of TRPML3 channels is estimate, when activated with 10 μM SN-2 is approximately 10 pS at −80 mV. TRPML3-expressing HEK293 cells are perfused with a series starting with compound alone (in SBS), with compound in ELS, and finally with ELS alone. Two representative compounds, SF-24 and SN-2, are tested. SF-24 is one of the least effective compounds, and SN-2 is one of the most active ones. SN-2 has a similar synergistic effect, also reaching up-to 10-fold enhancement of the combined response when compared with the individual responses, reaching average current densities of up to 3 nA/pF at −80 mV. Dominant negative TRPML3(D458K) is highly effective in eliminating SN-2-induced activity in epidermal melanocytes, suggesting that SN-2 activates a channel that is not responsive in presence of TRPML3(D458K). Such a dominant negative action might be attributed to potential heteromerization of TRPML3(D458K) with an SN-2-responsive channel[1].