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

GV-58

Catalog No: tcsc3617

Available Sizes

Size: 1mg

Size: 5mg

Specifications

CAS No:
1402821-41-3

Formula:
$C_{18}H_{26}N_6OS$

Pathway:
Membrane Transporter/Ion Channel

Target:
Calcium Channel

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
374.5

Product Description

GV-58 is a potent, selective N- and P/Q-type Ca2+ channels agonist with EC50 of 7.21/8.81 uM for N-type/P-Q-type Ca2+ channel; 20-fold less potent CDK inhibitor activity.

IC50 value: 7.21/8.81 uM (N-type/P-Q-type Ca2+ channel) [1]

Target: Ca2+ channel agonist

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In comparison with the parent molecule, (R)-roscovitine, GV-58 has a 20-fold less potent cyclin-dependent kinase antagonist effect, a 3- to 4-fold more potent Ca2+ channel agonist effect, and 4-fold higher efficacy as a Ca2+ channel agonist. GV-58 had no agonist activity (up to 100 μm) on the L-type α-subunit we tested (Cav1.3). In summary, GV-58 greatly improved upon (R)-roscovitine in terms of our properties of interest, with a ∼4-fold increase in efficacy as an agonist for N- and P/Q-type Ca2+ channels, a ∼3- to 4-fold increase in potency as an agonist for N- and P/Q-type Ca2+ channels, and a 20-fold decrease in potency as a Cdk antagonist.