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

ITI214

Catalog No: tcsc3627

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1642303-38-5

Formula:
$C_{29}H_{29}FN_7O_5P$

Pathway:
Metabolic Enzyme/Protease

Target:
Phosphodiesterase (PDE)

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 30 mg/mL (49.54 mM)

Observed Molecular Weight:
605.56

Product Description

ITI-214 is a picomolar PDE1 inhibitor with excellent selectivity against other PDE family members and against a panel of enzymes,

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receptors, transporters, and ion channels, exhibits potent PDE1 inhibitory activity (Ki = 58 pM).

IC50 value: 58 pM (Ki)

Target: PDE1

in vitro: ITI-214 exhibits picomolar inhibitory potency for PDE1, demonstrates excellent selectivity against all other PDE families.
ITI214 exhibits excellent selectivity over other PDE family

members. For instance, the Ki values of ITI214 against recombinant full-length human PDE1A, PDE1B, and PDE1C are 33 pM, 380 pM, and 35 pM, respectively. ITI214 is profiled in a panel of enzymes, receptors, transporters, and ion channels from Caliper at 10 μM, which is over 170000 times higher than its Ki for PDE1, and demonstrates good selectivity. [1]

in vivo: ITI214 possesses a good overall profile with balanced physicochemical properties, excellent potency and selectivity, and good pharmacokinetics. ITI214 is found to significantly enhance memory performance in the test with a minimum effective dose of 3 mg/kg. [1]