

ITI214 (free base)

Catalog No: tcsc3621



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1160521-50-5

Formula:

$C_{29}H_{26}FN_7O$

Pathway:

Metabolic Enzyme/Protease

Target:

Phosphodiesterase (PDE)

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

507.56

Product Description

ITI-214 (free base) is a picomolar PDE1 inhibitor with excellent selectivity against other PDE family members and against a panel of

enzymes, receptors, transporters, and ion channels, exhibits potent PDE1 inhibitory activity ($K_i = 58 \text{ pM}$).

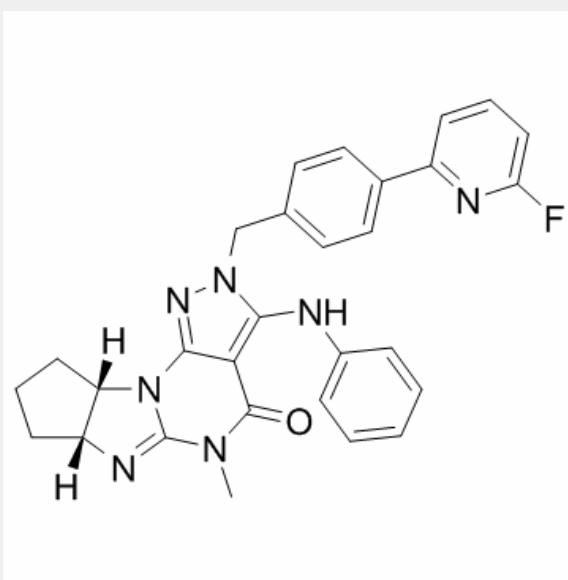
IC₅₀ value: 58 pM (K_i)

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 K_i 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 K_i 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]



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