

# 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 :  $\geq 30$  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,

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

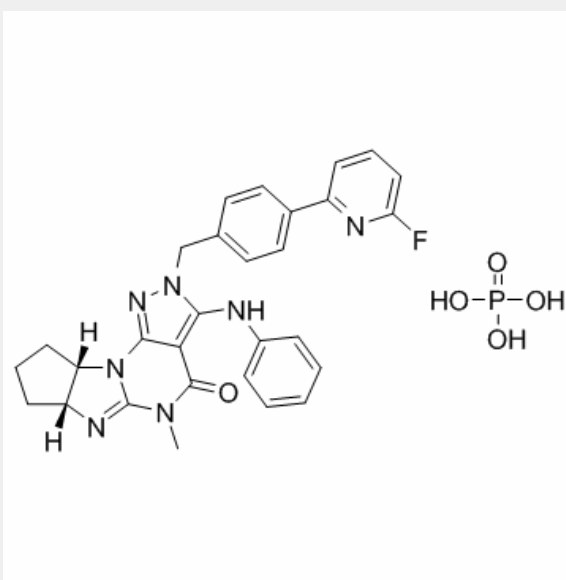
IC<sub>50</sub> value: 58 pM ( $K_i$ )

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  $\mu\text{M}$ , 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]



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!