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

MK-8617

Catalog No: tcsc0020731

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
1187990-87-9

Formula:
$C_{24}H_{21}N_5O_4$

Pathway:
Metabolic Enzyme/Protease

Target:
HIF/HIF Prolyl-Hydroxylase

Purity / Grade:
>98%

Solubility:
DMSO : 6 mg/mL (13.53 mM; Need ultrasonic)

Observed Molecular Weight:
443.45

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Product Description

MK-8617 is an orally active pan-inhibitor of hypoxia-inducible factor prolyl hydroxylase 1-3 (**HIF PHD1-3**) with an **IC_{50}** of 1 nM for **PHD2**.

IC50 & Target: IC50: 1 nM (PHD2)[1]

In Vitro: MK-8617 is an orally active pan-inhibitor of hypoxia-inducible factor prolyl hydroxylase 1-3 (HIF PHD1-3) with an IC_{50} of 1 nM for PHD2. MK-8617 is not a significant inhibitor of the cytochrome p450 enzymes *in vitro* (IC_{50}), CYP1A2, 3A4, 2B6, 2C9, 2C19, or 2D6, >60 μM, and is a moderate reversible inhibitor of CYP2C8 at 1.6 μM *in vitro*. The IC_{50} of MK-8617 is determined for factor inhibiting HIF (FIH) to be 18 μM[1].

In Vivo: Tritiated MK-8617 exhibits minimal metabolic turnover in liver microsomes from rat, dog, and monkey ([1].