

XMD17-109

Catalog No: tcsc1436



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

1435488-37-1

Formula:

$C_{36}H_{46}N_8O_3$

Pathway:

Stem Cell/Wnt;MAPK/ERK Pathway

Target:

ERK;ERK

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

638.8

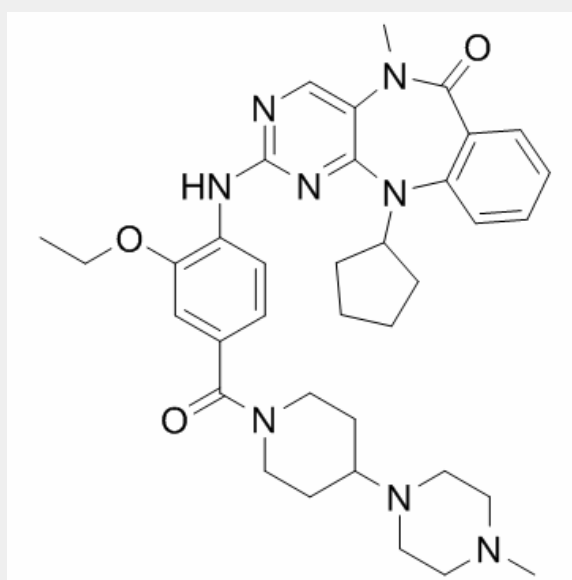
Product Description

XMD17-109 is a novel, specific **ERK-5** inhibitor, with an **IC₅₀** of 162 nM.

IC50 & Target: IC50: 162 nM (ERK-5)^[1]

In Vitro:

XMD17-109 (Compound 26) inhibits ERK5 biochemically with an IC_{50} of $0.162 \pm 0.006 \mu M$, and blocks pidermal growth factor induced ERK5 autophosphorylation with an EC_{50} of $0.09 \pm 0.03 \mu M$ in cells. XMD17-109 also inhibits LRRK2[G2019S] with an IC_{50} of 339 nM^[1]. XMD17-109 demonstrats low nanomolar cellular activity judged by the significant dose-dependent reduction of mobility shifted phosphorylated ERK5 bands from sorbitol stimulated cells. XMD17-109 completely inhibits the ERK5-mediated AP1 transcriptional activity at 30 μM and has an EC_{50} of 4.2 μM ^[2].



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