

# 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

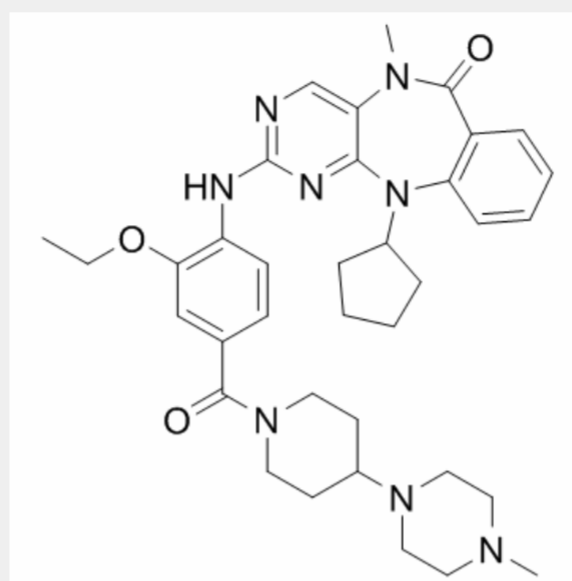
## Product Description

XMD17-109 is a novel, specific **ERK-5** inhibitor, with an **IC<sub>50</sub>** of 162 nM.

IC50 & Target: IC50: 162 nM (ERK-5)<sup>[1]</sup>

**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  $339 \text{ nM}$ <sup>[1]</sup>. 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  $30 \mu M$  and has an  $EC_{50}$  of  $4.2 \mu M$ <sup>[2]</sup>.



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