



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION

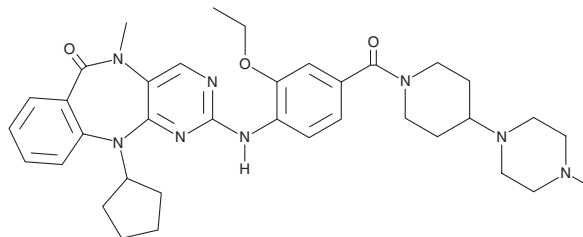


## XMD17-109

Item No. 25448

**CAS Registry No.:** 1435488-37-1  
**Formal Name:** 11-cyclopentyl-2-[[2-ethoxy-4-[[4-(4-methyl-1-piperazinyl)-1-piperidinyl]carbonyl]phenyl]amino]-5,11-dihydro-5-methyl-6H-pyrimido[4,5-b][1,4]benzodiazepin-6-one

**Synonym:** ERK5-IN-1  
**MF:** C<sub>36</sub>H<sub>46</sub>N<sub>8</sub>O<sub>3</sub>  
**FW:** 638.8  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 285, 312 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

XMD17-109 is supplied as a crystalline solid. A stock solution may be made by dissolving the XMD17-109 in the solvent of choice. XMD17-109 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of XMD17-109 in these solvents is approximately 1 mg/ml.

### Description

XMD17-109 is a selective ERK5 inhibitor (IC<sub>50</sub> = 0.162 μM in an enzyme assay).<sup>1</sup> It is selective for ERK5 over a panel of more than 200 kinases, inhibiting only ERK5 with greater than 90% target occupancy at a concentration of 10 μM. XMD17-109 inhibits ERK5 phosphorylation (IC<sub>50</sub> = 0.09 μM in HeLa cells) and decreases AP-1 transcriptional activity (EC<sub>50</sub> = 4.2 μM).<sup>2</sup> It also inhibits human recombinant LRRK2[G2019S], which contains a mutation that has been linked to Parkinson's disease, with an IC<sub>50</sub> value of 0.339 μM in an enzyme assay.<sup>1</sup>

### References

1. Deng, X., Elkins, J.M., Zhang, J., et al. Structural determinants for ERK5 (MAPK7) and leucine rich repeat kinase 2 activities of benzo[e]pyrimido-[5,4-b]diazepine-6(11H)-ones. *Eur. J. Med. Chem.* **70**, 758-767 (2013).
2. Elkins, J.M., Wang, J., Deng, X., et al. X-ray crystal structure of ERK5 (MAPK7) in complex with a specific inhibitor. *J. Med. Chem.* **56**(11), 4413-4421 (2013).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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