

## Product Information

### ERK inhibitor XMD 17-109, Purity $\geq 98\%$

**Cat. No.:** X23-10-ZQ869

**Size:** 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

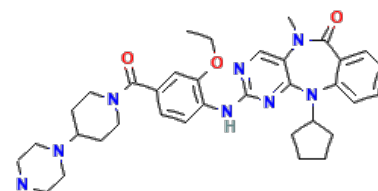
**CAS Number:** 1435488-37-1

**Compound CID:** 71604307

**Synonym:** XMD17-109; 1435488-37-1; 11-Cyclopentyl-2-[2-ethoxy-4-[4-(4-methylpiperazin-1-yl)piperidine-1-carbonyl]anilino]-5-methylpyrimido[4,5-b][1,4]benzodiazepin-6-one; XMD17109; 11-Cyclopentyl-2-((2-ethoxy-4-(4-(4-methylpiperazin-1-yl)piperidine-1-carbonyl)phenyl)amino)-5-methyl-

5,11-dihydro-6*H*-benzo[e]pyrimido[5,4-b][1,4]diazepin-6-one; ERK inhibitor

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	XMD 17-109, soluble in DMSO and ethanol and insoluble in water, exhibits potent inhibition of ERK kinase. It targets ERK5.
<b>Molecular Weight</b>	638.8
<b>Molecular Formula</b>	C <sub>36</sub> H <sub>46</sub> N <sub>8</sub> O <sub>3</sub>
<b>Targets</b>	ERK5: 162 nM
<b>IUPAC Name</b>	11-Cyclopentyl-2-[2-ethoxy-4-[4-(4-methylpiperazin-1-yl)piperidine-1-carbonyl]anilino]-5-methylpyrimido[4,5-b][1,4]benzodiazepin-6-one
<b>InChI</b>	InChI=1S/C36H46N8O3/c1-4-47-32-23-25(34(45)43-17-15-26(16-18-43)42-21-19-40(2)20-22-42)13-14-29(32)38-36-37-24-31-33(39-36)44(27-9-5-6-10-27)30-12-8-7-11-28(30)35(46)41(31)3/h7-8,11-14,23-24,26-27H,4-6,9-10,15-22H2,1-3H3,(H,37,38,39)
<b>InChI Key</b>	XVBGRTMNFNINE-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CCOC1=C(C=CC(=C1)C(=O)N2CCC(CC2)N3CCN(CC3)C)NC4=NC=C5C(=N4)N(C6=CC=CC=C6C(=O)N5C)C7CCCC7
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	DMSO: 97 mg/mL (151.84 mM); Water: Insoluble; Ethanol: 97 mg/mL
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized



powder.

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**Applications**

XMD 17-109 can be applied to the study of ERK1/2 inhibition in cancer biology and therapy.

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**Storage**

Store at -20°C.

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