

Product Information

ERK inhibitor XMD8-92, Purity ≥98%

Cat. No.: X23-10-ZQ870

Size: 25 mg; 50 mg; 100 mg

MDL: MFCD18782742

CAS Number: 1234480-50-2

Compound CID: 46843772

Synonym: XMD8-92; 1234480-50-2; XMD 8-92;

2-[

[2-Et

hoxy-4-(4-

hydroxy-1-piperidinyl

)phenyl]amino]-5,11-dihydro-5,11-dimeth

yl-6*H*-pyrimido[4,5-*B*][1,4]benzodiazepin-6-one;

2-{

[2-Et

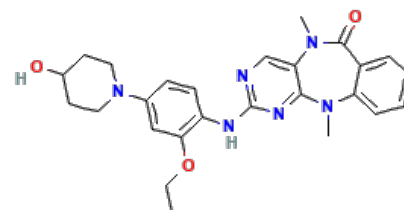
hoxy-4-(4-

hydroxypiperidin-1-y

)phenyl]amino}-5,11-dimethyl-5,11-dihyd

ro-6*H*-pyrimido[4,5-*b*][1,4]benzodiazepin-6-one; ERK inhibitor

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



Product Information

Description	XMD8-92, soluble in warmed DMSO and insoluble in water and ethanol, exhibits potent inhibition of ERK kinase. It targets ERK5.
Molecular Weight	474.55
Molecular Formula	C ₂₆ H ₃₀ N ₆ O ₃
Targets	ERK5: 80 nM (Kd)
IUPAC Name	2-[2-Ethoxy-4-(4-hydroxypiperidin-1-yl)anilino]-5,11-dimethylpyrimido[4,5- <i>b</i>][1,4]benzodiazepin-6-one
InChI	InChI=1S/C26H30N6O3/c1-4-35-23-15-17(32-13-11-18(33)12-14-32)9-10-20(23)28-26-27-16-22-24(29-26)30(2)21-8-6-5-7-19(21)25(34)31(22)3/h5-10,15-16,18,33H,4,11-14H2,1-3H3,(H,27,28,29)

InChI Key	QAPAJIZPZGWAND-UHFFFAOYSA-N
Canonical SMILES	<chem>CCOC1=C(C=CC(=C1)N2CCC(CC2)O)NC3=NC=C4C(=N3)N(C5=CC=CC=C5C(=O)N4C)C</chem>
Form	Lyophilized powder
Purity	≥98%
Solubility	Warmed DMSO: 70 mg/mL (147.5 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Applications	XMD8-92 can be used to investigate the effects of ERK5 inhibition in cellular signaling and cancer research.
Storage	Store at -20°C.
