

## Product Information

### ERK inhibitor Pluripotin, Purity $\geq 98\%$

**Cat. No.:** X23-10-ZQ866

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

**MDL:** MFCD20527253

**CAS Number:** 839707-37-8

**Compound CID:** 12003241

**Synonym:** Pluripotin; 839707-37-8; *N*-(3-(7-(1,3-Dimethyl-1*H*

-pyrazol-5-ylamino)-1-methyl-2-oxo

-1,2-dihydropyrimido[4,5-*d*]pyrimidin-3(4*H*

)-yl)-4-methylphenyl)-3-(trifluoromethyl)benzamide; SC1(Pluripotin);

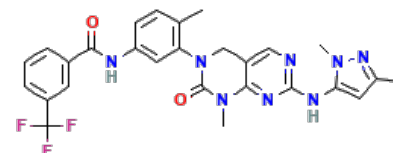
CHEMBL4213673;

*N*-(3-(7-((1,3-Dimethyl-1*H*

-pyrazol-5-yl)amino)-1-methyl-2-oxo

-1,2-dihydropyrimido[4,5-*d*]pyrimidin-3(4*H*

)-yl)-4-methylphenyl)-3-(trifluoromethyl)benzamide; ERK inhibitor



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

### Product Information

<b>Description</b>	Pluripotin, soluble in DMSO and insoluble in ethanol and water, exhibits potent inhibition of ERK kinase. It targets ERK1 and RasGAP.
<b>Molecular Weight</b>	550.5
<b>Molecular Formula</b>	C <sub>27</sub> H <sub>25</sub> F <sub>3</sub> N <sub>8</sub> O <sub>2</sub>
<b>Targets</b>	ERK1: 98 nM (Kd); RasGAP: 212 nM (Kd)
<b>IUPAC Name</b>	<i>N</i> -[3-[7-[(2,5-Dimethylpyrazol-3-yl)amino]-1-methyl-2-oxo-4 <i>H</i> -pyrimido[4,5- <i>d</i> ]pyrimidin-3-yl]-4-methylphenyl]-3-(trifluoromethyl)benzamide
<b>InChI</b>	InChI=1S/C27H25F3N8O2/c1-15-8-9-20(32-24(39)17-6-5-7-19(11-17)27(28,29)30)12-21(15)38-14-18-13-31-25(34-23(18)36(3)26(38)40)33-22-10-16(2)35-37(22)4/h5-13H,14H2,1-4H3,(H,32,39)(H,31,33,34)
<b>InChI Key</b>	NBZFRTJWEIHFPF-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC1=C(C=C(C=C1)NC(=O)C2=CC(=CC=C2)C(F)(F)F)N3CC4=CN=C(N=C4N(C3=O)C)NC5=CC(=NN5)C



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<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%
<b>Solubility</b>	DMSO: 96 mg/mL (174.37 mM); Water: Insoluble; Ethanol: Insoluble
<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.
<b>Applications</b>	Pluripotin can be used to maintain the pluripotency of embryonic stem cells via dual inhibition of ERK1/2 and GSK3 pathways.
<b>Storage</b>	Store at -20°C.

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