

## Product Information

### PI3K inhibitor IC-87114, Purity $\geq 98\%$

**Cat. No.:** X24-05-ZQ102

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

**CAS Number:** 371242-69-2

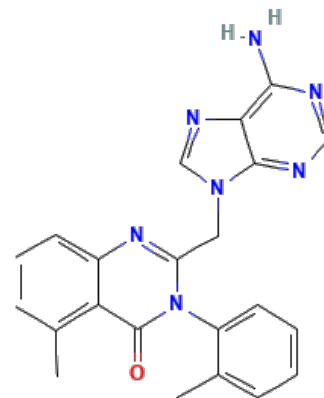
**Compound CID:** 9908783

**Synonym:** 371242-69-2; IC-87114; IC87114;

2-((6-Amino-9H-purin-9-yl)methyl)-5-methyl-3-o-tolylquinazolin-4(3H)-one; IC 87114;

PI3K inhibitor

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



#### Product Information

<b>Description</b>	IC-87114, soluble in DMSO and insoluble in ethanol and water, is a potent compound that inhibits PI3 kinase activity. It targets PI3K $\beta$ , PI3K $\delta$ , and PI3K $\gamma$ .
<b>Molecular Weight</b>	397.4
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>19</sub> N <sub>7</sub> O
<b>Targets</b>	PI3K $\beta$ : 75 $\mu$ M; PI3K $\delta$ : 0.5 $\mu$ M; PI3K $\gamma$ : 29 $\mu$ M
<b>IUPAC Name</b>	2-[(6-Aminopurin-9-yl)methyl]-5-methyl-3-(2-methylphenyl)quinazolin-4-one
<b>InChI</b>	InChI=1S/C22H19N7O/c1-13-6-3-4-9-16(13)29-17(27-15-8-5-7-14(2)18(15)22(29)30)10-28-12-26-19-20(23)24-11-25-21(19)28/h3-9,11-12H,10H2,1-2H3,(H2,23,24,25)
<b>InChI Key</b>	GNWHRHGTIBRNSM-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC1=C2C(=CC=C1)N=C(N(C2=O)C3=CC=CC=C3C)CN4C=NC5=C(N=CN=C54)N
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	DMSO: 0.62 mg/mL (1.56 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>	IC-87114 is employed to investigate PI3K $\delta$ inhibition and its effects on immune cell function.
<b>Storage</b>	Store at -20°C.