

## Product Information

### PI3K inhibitor PIK-III, Purity $\geq 98\%$

**Cat. No.:** X24-05-ZQ147

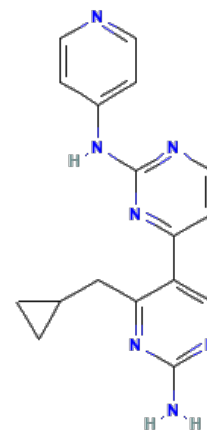
**Size:** 5 mg; 10 mg; 25 mg

**CAS Number:** 1383716-40-2

**Compound CID:** 67983123

**Synonym:** 1383716-40-2; VPS34-IN2; PI3K inhibitor

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



#### Product Information

<b>Description</b>	PIK-III, soluble in DMSO and ethanol and insoluble in water, is a potent compound that inhibits PI3 kinase activity. It targets PI3K $\delta$ , PI3K $\gamma$ , mTOR, PI3K $\alpha$ , PI3K $\beta$ , PI3K $\beta$ , and Vps34.
<b>Molecular Weight</b>	319.36
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>17</sub> N <sub>7</sub>
<b>Targets</b>	PI3K $\delta$ : 1.2 $\mu$ M; PI3K $\gamma$ : 3.04 $\mu$ M; mTOR: >9.1 $\mu$ M; PI3K $\alpha$ : 3.96 $\mu$ M; PI3K $\beta$ : >9.1 $\mu$ M; PI3K $\beta$ : 4.43 $\mu$ M; Vps34: 0.018 $\mu$ M
<b>IUPAC Name</b>	4-(Cyclopropylmethyl)-5-[2-(pyridin-4-ylamino)pyrimidin-4-yl]pyrimidin-2-amine
<b>InChI</b>	InChI=1S/C17H17N7/c18-16-21-10-13(15(23-16)9-11-1-2-11)14-5-8-20-17(24-14)22-12-3-6-19-7-4-12/h3-8,10-11H,1-2,9H2,(H2,18,21,23)(H,19,20,22,24)
<b>InChI Key</b>	XXSDLQLNIVFIJI-UHFFFAOYSA-N
<b>Canonical SMILES</b>	C1CC1CC2=NC(=NC=C2C3=NC(=NC=C3)NC4=CC=NC=C4)N
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	DMSO: 56 mg/mL (175.34 mM); Water: Insoluble; Ethanol: 56 mg/mL (175.34 mM)
<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>	PIK-III serves as an inhibitor of autophagic PI3K VPS34, useful for studying autophagy and cellular trafficking.
<b>Storage</b>	Store at -20°C.



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