

Product Name : IC-87114

Synonyms : IC87114; IC 87114

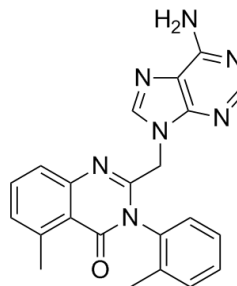
Cat No. : M14279

CAS Number : 371242-69-2

Molecular Formula : C₂₂H₁₉N₇O

Formula Weight : 397.43

Chemical Name : 4(3H)-Quinazolinone, 2-[(6-amino-9H-purin-9-yl)methyl]-5-methyl-3-(2-methylphenyl)-



Description : A potent and selective PI3K δ inhibitor with IC₅₀ of 0.5 μ M; displays 58-fold selectivity over PI3K γ , and >100-fold over PI3K α and PI3K β ; inhibits polarized morphology of neutrophils, fMLP-stimulated PIP₃ production and chemotaxis; inhibits constitutive phosphorylation of Akt/PKB and suppresses AML cell proliferation; reduces vascular permeability in a murine model of asthma.

Pathway : PI3K/Akt/mTOR signaling

Target : PI3K

Receptor : PI3K β ; PI3K γ ; PI3K δ

Solubility : 10 mM in DMSO

SMILES : O=C1N(C2=CC=CC=C2C)C(CN3C=NC4=C(N)N=CN=C34)=NC5=C1C(C)=CC=C5

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Sadhu C, et al. J Immunol. 2003 Mar 1;170(5):2647-54.
2. Billottet C, et al. Oncogene. 2006 Oct 26;25(50):6648-59.
3. Puri KD, et al. Blood. 2004 May 1;103(9):3448-56.
4. Lee KS, et al. J Allergy Clin Immunol. 2006 Aug;118(2):403-9.