

Product Name	: Vps34-IN-1
Synonyms	: Vps34-IN1
Cat No.	: M11588
CAS Number	: 1383716-33-3
Molecular Formula	: C ₂₁ H ₂₄ ClN ₇ O
Formula Weight	: 425.91
Chemical Name	: 2-Propanol, 1-[[2-[(2-chloro-4-pyridinyl)amino]-4'-(cyclopropylmethyl)[4,5'-bipyrimidin]-2'-yl]amino]-2-methyl-
Description	Vps34-IN-1 is a potent, selective inhibitor of class III PI3K Vps34 with IC₅₀ of 25 nM, does not inhibit class I and II PI3Ks, as well as a broad panel of protein kinases or lipid kinases; rapidly reduces endosomal PtdIns(3)P levels, induces a rapid ~50-60% loss of SGK3 phosphorylation in cells, does not inhibit activity of the SGK2 isoform; Vps34-IN1 is a useful probe to delineate physiological roles of the Vps34.
Pathway	: PI3K/Akt/mTOR signaling
Target	: PI3K
Receptor	: Vps34
Solubility	: DMSO: ≥ 31 mg/mL
SMILES	: <chem>OC(C)(C)CNC(N=C1CC2CC2)=NC=C1C3=CC=NC(NC4=CC=NC(Cl)=C4)=N3</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Bago R, et al. Biochem J. 2014 Nov 1;463(3):413-27. | 2. Valet C, et al. Blood. 2017 Nov 2;130(18):2032-2042.

