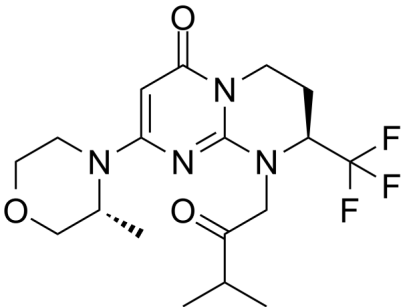


## Data Sheet

### Product Information

Catalog Number	BP22332
Product Name	Vps34-IN-2
Description	Vps34-IN-2 is a potent and selective Vps34 inhibitor (IC <sub>50</sub> s: 2 and 82 nM on the Vps34 enzymatic assay and the GFP-FYVE cellular assay, respectively).
Targets&IC <sub>50</sub>	Vps34:2 nM
In vitro	Vps34-IN-2 displays IC <sub>50</sub> s of 2 and 82 nM on the Vps34 enzymatic assay and the GFP-FYVE cellular assay, respectively. Vps34-IN-2 exhibits selectivity against mTOR with IC <sub>50</sub> more than 10 μM and class I PI3Ks with IC <sub>50</sub> values of 2.7, 4.5, 2.5, and >10 μM on PI3K α, β, δ, γ isoforms, respectively.
In vivo	After oral administration (po), Vps34-IN-2 is rapidly absorbed with maximal plasma concentrations observed at 0.5 h and a bioavailability of 85%. Slight rebounds of concentrations are observed at 4 and 8 h after oral dosing with no obvious explanation. After iv injection of Vps34-IN-2 at 3 mg/kg, plasma clearance is found moderate (i.e., 2.3 L/h/kg), corresponding to 44% of hepatic blood flow in this species, volume of distribution at steady state is moderate, and terminal elimination half-life is short.
CAS No.	1523404-29-6
Chemical Formula	C <sub>18</sub> H <sub>25</sub> F <sub>3</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight	402.418
Solubility	Ethanol: 50 mg/mL (124.25 mM), Need ultrasonic

Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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