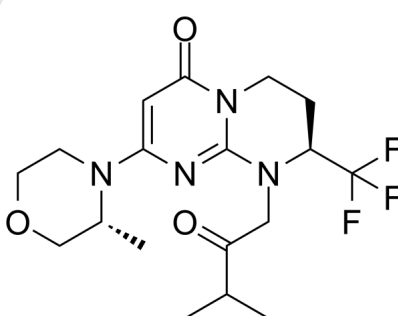


Certificate of Analysis

Catalog Number	BP22332
Product Name	Vps34-IN-2

Physical and Chemical Properties

CAS No.	1523404-29-6
Chemical Formula	C ₁₈ H ₂₅ F ₃ N ₄ O ₃
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	

Product Information

Description	Vps34-IN-2 is a potent and selective Vps34 inhibitor (IC ₅₀ s: 2 and 82 nM on the Vps34 enzymatic assay and the GFP-FYVE cellular assay, respectively).
Targets&IC ₅₀	Vps34:2 nM

In vitro	Vps34-IN-2 displays IC50s 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 IC50 more than 10 μ M and class I PI3Ks with IC50 values of 2.7, 4.5, 2.5, and >10 μ M 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.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<http://www.purduebio.com>

1-877.618.7311

info@purduebio.com

v2 Revision on 12/28/2022