

Product data sheet



MedKoo Cat#: 555848 Name: GRP-60367 CAS: 1309241-34-6 Chemical Formula: C ₂₁ H ₂₇ N ₃ O ₂ Exact Mass: 353.2103 Molecular Weight: 353.466	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

GRP-60367 is a potent and selective rabies virus (RABV) entry inhibitor with nanomolar potency against some RABV strains. GRP-60367 inhibits entry of a subset of RABV strains. Resistance profiling of the chemotype revealed hot spots in conserved hydrophobic positions of the RABV G protein fusion loop that were confirmed in transient cell-to-cell fusion assays. Transfer of RABV G genes with signature resistance mutations into a recombinant VSV backbone resulted in the recovery of replication-competent virions with low susceptibility to the inhibitor.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.83 mL	14.15 mL	28.29 mL
5 mM	0.57 mL	2.83 mL	5.66 mL
10 mM	0.28 mL	1.41 mL	2.83 mL
50 mM	0.06 mL	0.28 mL	0.57 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Du Pont V, Wirblich C, Yoon JJ, Cox RM, Schnell MJ, Plemper RK. Identification and Characterization of a Small-Molecule Rabies Virus Entry Inhibitor. *J Virol.* 2020 Jun 16;94(13):e00321-20. doi: 10.1128/JVI.00321-20. PMID: 32321812; PMCID: PMC7307179.

In vivo study

TBD

7. Bioactivity

Biological target:

GRP-60367 is a first-in-class small-molecule rabies virus (RABV) entry inhibitor with nanomolar potency against some RABV strains.

In vitro activity

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Sourced GRP-60367 confirmed specific and potent anti-RABV activity of the scaffold, returning in dose-response assays EC50s ranging from 2 to 52 nM on different host cell lines (Fig. 2B).

Reference: J Virol. 2020 Jun 16;94(13):e00321-20. <https://pubmed.ncbi.nlm.nih.gov/32321812/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.