

RVG29-Cys

Chemical Properties

CAS No. : 1404289-25-3

Formula:

Molecular Weight:

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	RVG29-Cys is a peptide derived from rabies virus glycoprotein (RVG) that specifically binds to nicotinic acetylcholine receptors (nAChR) on neural cells. It is employed to functionalize lipid nanoparticles (LNPs) via thiol-maleimide click chemistry for targeting nAChR present on the blood-brain barrier (BBB). mRNA LNPs functionalized with RVG29-Cys demonstrate enhanced transfection efficiency in cultured brain endothelial and neuronal cells, as well as in mice following systemic administration.
In vitro	RVG29-Cys is a peptide originating from rabies virus glycoprotein (RVG) that specifically targets nicotinic acetylcholine receptors (nAChR) on neuronal cells. It is utilized to functionalize lipid nanoparticles (LNPs) through thiol-maleimide click chemistry, facilitating nAChR targeting on the blood-brain barrier (BBB). mRNA LNPs enhanced with RVG29-Cys exhibit increased transfection efficiency in both cultured brain endothelial and neuronal cells, as well as in vivo following systemic administration in mice.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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