MVL5

Cat. No.: HY-144014

CAS No.: 464926-03-2

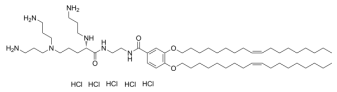
Molecular Formula: $C_{59}H_{116}Cl_5N_7O_4$

Molecular Weight: 1164.86

Target: Liposome

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (85.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.8585 mL	4.2924 mL	8.5847 mL
	5 mM	0.1717 mL	0.8585 mL	1.7169 mL
	10 mM	0.0858 mL	0.4292 mL	0.8585 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (2.15 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.15 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description MVL5 is a non-degradable multivalent cationic lipid. MVL5 is a highly efficient vector for both DNA and siRNA[1].

REFERENCES

[1]. Rahau S Shirazi, et al. Synthesis and characterization of degradable multivalent cationic lipids with disulfide-bond spacers for gene delivery. Biochim Biophys Acta. 2011 Sep;1808(9):2156-66.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA