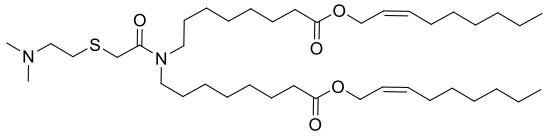
Product data sheet

MedKoo Cat#: 465713 Name: ATX-001 CAS#: 1777792-33-2 Chemical Formula: $C_{40}H_{74}N_2O_5S$ Exact Mass: 694.5318 Molecular Weight: 695.101	
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:
ATX-001 is an ionizable lipid. It is useful for Development of Lipidoid Nanoparticles for siRNA, mRNA, and vaccine Delivery.

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
DMSO	250.0	359.66

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.99 mL	9.97 mL	19.95 mL
5 mM	0.40 mL	1.99 mL	3.99 mL
10 mM	0.20 mL	1.00 mL	1.99 mL
50 mM	1.44 mL	0.20 mL	0.40 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. Balupuri A, Lee MH, Chae S, Jung E, Yoon W, Kim Y, Son SJ, Ryu J, Kang DH, Yang YJ, You JN, Kwon H, Jeong JW, Koo TS, Lee DY, Kang NS. Discovery and optimization of ATX inhibitors via modeling, synthesis and biological evaluation. Eur J Med Chem. 2018 Mar 25;148:397-409. doi: 10.1016/j.ejmech.2018.02.049. Epub 2018 Feb 17. PMID: 29477073.

In vivo study

N/A

7. Bioactivity
Biological target:

ATX inhibitor 1 is a potent ATX (IC50=1.23 nM, FS-3 and 2.18 nM, bis-pNPP) inhibitor.

In vitro activity

N/A

In vivo activity

N/A

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.