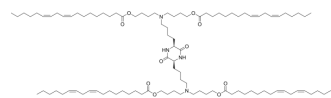


## OF-C4-Deg-Lin

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-148855  |       |          |
| CAS No.:           | 2383003-60-7   |       |          |
| Molecular Formula: | C <sub>100</sub> H <sub>176</sub> N <sub>4</sub> O <sub>10</sub> |       |          |
| Molecular Weight:  | 1594.49  |       |          |
| Target:            | Liposome   |       |          |
| Pathway:           | Metabolic Enzyme/Protease  |       |          |
| Storage:           | Pure form  | -20°C | 3 years  |
|                    |  | 4°C   | 2 years  |
|                    | In solvent   | -80°C | 6 months |
|                    |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

|   |  |                          |           |           |
|---|--|--------------------------|-----------|-----------|
| In Vitro  | DMSO : 100 mg/mL (62.72 mM; Need ultrasonic)   |                          |           |           |
|   |  | Solvent<br>Concentration | Mass      |           |
|   |  |                          | 1 mg      | 5 mg      |
|   |  |                          | 10 mg     |           |
| Preparing Stock Solutions   | 1 mM   | 0.6272 mL                | 3.1358 mL | 6.2716 mL |
|   | 5 mM   | 0.1254 mL                | 0.6272 mL | 1.2543 mL |
|   | 10 mM  | 0.0627 mL                | 0.3136 mL | 0.6272 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<br>Solubility: ≥ 2.5 mg/mL (1.57 mM); Clear solution |                          |           |           |

### BIOLOGICAL ACTIVITY

|             |   |
|-------------|---|
| Description | OF-C4-Deg-Lin is an ionizable lipid with varied linker lengths. OF-C4-Deg-Lin can be used in the generation of lipid nanoparticles (LNPs) for the delivery of siRNA and mRNA <sup>[1]</sup> . |
|-------------|---|

### REFERENCES

[1]. Fenton OS, et al. Customizable Lipid Nanoparticle Materials for the Delivery of siRNAs and mRNAs. *Angew Chem Int Ed Engl.* 2018 Oct 8;57(41):13582-13586.

---

**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](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA