

# DC67444 | GalNAc Lipid 1005

## Instructions for Use

GalNAc Lipid 1005 is a trivalent GalNAc-lipid conjugate designed for ASGPR-mediated hepatic delivery. It features a lysine-based scaffold covalently linked to three GalNAc moieties via a 44-unit PEG spacer, anchored by a 1,2-O-diocetadecyl-sn-glycerol (DSG) lipid tail.

## Product information

|                    |                                                                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No.            | Not available                                                                                                                                                       |
| Chemical Name      | GalNAc Lipid 1005                                                                                                                                                   |
| Formula            | C <sub>184</sub> H <sub>355</sub> O <sub>72</sub> N <sub>9</sub>                                                                                                    |
| M.Wt               | 3,845.86                                                                                                                                                            |
| Purity             | >98%                                                                                                                                                                |
| Storage            | Original product: up to 1 year under the storage conditions stated on the vial, kept tightly sealed. Stock solutions: aliquots at -20°C, generally up to one month. |
| Shipping condition | Ships from Shanghai. Pure lipid is stable during ice-pack transport.                                                                                                |

## Formulation & study context

Literature values apply to the cited study only. Administration routes describe research, not clinical instructions.

A complete product-specific formulation has not been verified. No standard ratio is substituted.

|                      |                                      |
|----------------------|--------------------------------------|
| N/P ratio            | Not reported in the verified record  |
| Cargo                | Not available in the verified record |
| Administration route | Not available in the verified record |
| Animal model         | Not available in the verified record |
| Formulation process  | Not available in the verified record |

N/P is a nitrogen-to-phosphate molar ratio. Lipid:cargo mass ratio is a different quantity and must not be used as N/P.

## Stock-solution preparation table

Calculated using product-page MW: 3845.86 g/mol. Volumes are final solution volumes.

| Mass  | 1 mM      | 5 mM     | 10 mM    |
|-------|-----------|----------|----------|
| 10 mg | 2.600 mL  | 0.520 mL | 0.260 mL |
| 25 mg | 6.500 mL  | 1.300 mL | 0.650 mL |
| 50 mg | 13.001 mL | 2.600 mL | 1.300 mL |

| Mass   | 1 mM      | 5 mM      | 10 mM    |
|--------|-----------|-----------|----------|
| 100 mg | 26.002 mL | 5.200 mL  | 2.600 mL |
| 250 mg | 65.005 mL | 13.001 mL | 6.500 mL |

Volume (mL) = mass (mg) × 1000 / [MW (g/mol) × concentration (mM)]. Mathematical conversions only; not measured solubility. Confirm solvent compatibility and the exact material before preparation.

## Handling & storage

Provided that storage conditions are as stated on the product vial and the vial is kept tightly sealed, the product can be stored for up to 1 year.

Wherever possible, prepare and use solutions on the same day. If stock solutions must be prepared in advance, store them as aliquots in tightly sealed vials at -20°C. Generally, these will be usable for up to one month.

Before use, and prior to opening the vial, allow the product to equilibrate to room temperature for at least 1 hour.

## References

Not available