

# DC60578 | TE-EP8-S

## Instructions for Use

TE-EP8-S is a single-component, ionizable cationic lipid designed specifically for the targeted delivery of mRNA to T cells within the spleen. This innovative lipid formulation enhances the efficiency and precision of mRNA-based therapies by ensuring optimal cellular uptake and expression in immune cells. Its unique structure and properties make it a promising tool for advancing immunotherapeutic applications.

## Product information

|                    |                                                                                                                                                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No.            | Not available                                                                                                                                                       |
| Chemical Name      | TE-EP8-S                                                                                                                                                            |
| Formula            | C <sub>24</sub> H <sub>55</sub> O <sub>2</sub> N <sub>5</sub>                                                                                                       |
| M.Wt               | 445.74                                                                                                                                                              |
| Purity             | ELSD-HPLC>95%                                                                                                                                                       |
| 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: 445.74 g/mol. Volumes are final solution volumes.

| Mass  | 1 mM      | 5 mM      | 10 mM    |
|-------|-----------|-----------|----------|
| 10 mg | 22.435 mL | 4.487 mL  | 2.243 mL |
| 25 mg | 56.087 mL | 11.217 mL | 5.609 mL |

| Mass   | 1 mM       | 5 mM       | 10 mM     |
|--------|------------|------------|-----------|
| 50 mg  | 112.173 mL | 22.435 mL  | 11.217 mL |
| 100 mg | 224.346 mL | 44.869 mL  | 22.435 mL |
| 250 mg | 560.865 mL | 112.173 mL | 56.087 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