

Certificate of Analysis

www.tocris.com

Product Name: ProtiFect STAR™ Protein Transfection Reagent

Catalog No.: 8098

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:	Pale yellow liquid
Solubility:	Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 10mg/ml)
Storage:	Store at -20°C
Batch Molecular Structure:	—

2. ANALYTICAL DATA

¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: ProtiFect STAR™ Protein Transfection Reagent

Catalog No.: 8098

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Description:

ProtiFect STAR™ Protein Transfection Reagent is a transfection reagent capable of delivering a wide range of proteins with varying molecular weights (up to 240 kDa) and isoelectric points to the cytoplasm, including Cas9 ribonucleoproteins and BSA-FITC. ProtiFect STAR™ is a gemini amphiphile, which bypasses endocytic pathways. Can be used in vivo and in vitro in a variety of cell types including primary cells, T-cells, B-cells and stem cells. For more information on how to use ProtiFect STAR™, please see our protocol. This compound is supplied pre-dissolved in ethanol (10 mg/mL). Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Physical Appearance: Pale yellow liquid

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:

Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 10mg/ml)

This compound is supplied pre-dissolved in ethanol (10mg/mL).

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Le et al (2023) Direct cytosolic delivery of proteins and CRISPR-Cas9 genome editing by gemini amphiphiles via non-endocytic translocation pathways. *ACS Cent.Sci.* **9** 1313. PMID: 37521791.

Zhao et al (2023) Gemini amphiphiles: robust cytosolic delivery of therapeutic biomacromolecules through non-endocytic translocation pathways. *AC Cent.Sci.* **9** 1266. PMID: 37521797.

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