

Certificate of Analysis

Print Date: Feb 7th 2024

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:

8098

N.N'-[1.14-Bis(1-methylethyl)-2.13-dioxo-6.9-dioxa-3.12-diazatetradecane-1.14-diyl]bis(N-[3-(dimethylamino)propyl]]octadecanamide

No CAS entr

InChiKey: GYGLLDIJTWDKMO-UHFFFAOYSA-N

2. ANALYTICAL DATA

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

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Product Information

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Product Name: ProtiFect STAR™ Protein Transfection Reagent

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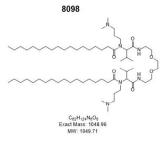
Description:

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 predissolved 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:



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No CAS entry

InChiKey: GYGLLDIJTWDKMO-UHFFFAOYSA-N Storage: Store at -20°C

Solubility & Usage Info:

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

Catalog No.: 8098

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.

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