

DC68147 | SAINT-2

Instructions for Use

SAINT-2 is a cationic lipid with gene transfection activity and is a pyridyl lipid analog. Molecular membranes prepared by SAINT-2 can interact with plasmids to form lipid complexes. After the complex is taken up by cells, the plasmid dissociates from the lipid complex under the action of DOPE and the plasmid translocates across the endosome and/or nuclear membrane. Thus, SAINT-2 effectively transfers small oligonucleotides into cells□

Product information

CAS No.	Not available
Chemical Name	SAINT-2
Formula	C43H78CLN
M.Wt	644.54
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: 644.54 g/mol. Volumes are final solution volumes.

Mass	1 mM	5 mM	10 mM
10 mg	15.515 mL	3.103 mL	1.551 mL

Mass	1 mM	5 mM	10 mM
25 mg	38.787 mL	7.757 mL	3.879 mL
50 mg	77.575 mL	15.515 mL	7.757 mL
100 mg	155.149 mL	31.030 mL	15.515 mL
250 mg	387.874 mL	77.575 mL	38.787 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