

DEAE-dextran, MW 500000 hydrochloride

Chemical Properties

CAS No. : 9064-91-9

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	DEAE-dextran, MW 500000 hydrochloride is a cationic polysaccharide derivative obtained by diethylaminoethyl (DEAE) modification of dextran derived from <i>Leuconostoc mesenteroides</i> . DEAE-dextran, MW 500000 hydrochloride facilitates cellular uptake of nucleic acids by forming complexes with them and is commonly used to enhance the delivery of RNA or DNA into cells. DEAE-dextran, MW 500000 hydrochloride is widely applied as a tool in gene delivery and transfection studies and can also be used for liposome surface modification.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 80 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Rigby P G. Prolongation of survival of tumour-bearing animals by transfer of "immune" RNA with DEAE dextran[[]]. *Nature*, 1969, 221(5184): 968-969.

Siewert C, et al. Investigation of charge ratio variation in mRNA-DEAE-dextran polyplex delivery systems[[]]. *Biomaterials*, 2019, 192: 612-620.

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