
Product Data Sheet

Product Name: Lamin-A Human
Cat. No.: GP23792
Batch No.: 1

Product Data

Purity	>98%	Source
Physical Appearance	solid	Shipping Condition

Synonyms Prelamin-A/C; LMNA; LMN1; Lamin-A/C; 70 kDa lamin; Renal carcinoma antigen NY-REN-32; FPL; IDC; LFP; CDDC; EMD2; FPLD; HGP
Amino Acid HHHHHH-
Sequence METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVHSLETENAGLRLRITESEEVVSREVSIGKAAYEALGDARKTLDSVAKERAR
Formulation The Lamin-A Protein solution (0.9mg/ml) contains 20mM phosphate buffer pH 7.0, 500mM NaCl, 1mM DTT, 1.5mM EDTA and 20% (

Introduction

Lamin-A is a major component of the nuclear lamina, a dynamic meshwork located just under the nuclear envelope and it is encoded by lamin A/C gene (LMNA). Lamin-A is synthesized as Prelamin A, a longer precursor that in vivo goes through a series of post-translational modifications that lead to mature Lamin A. Diverse mutations in the Lamin A/C gene are associated with different diseases that are collectively called laminopathies, including Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Background

Recombinant Human Lamin A produced in E. Coli is a single, non-glycosylated polypeptide chain containing 645 amino acids and having a molecular mass of 70 kDa. Lamin-A protein is fused to a 6xHis tag at N-terminus and purified by conventional chromatography techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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