

Recombinant Human DNASE1 protein, His-tagged

Cat. No. DNASE1-1529H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human DNASE1 aa. (Gly19~Ala259) fused with N-terminal His tag was produced in E. coli cells.

Species Human

Source E.coli

ProteinLength Gly19~Ala259

Description This gene encodes a member of the DNase family. This protein is stored in the zymogen granules of the nuclear envelope and functions by cleaving DNA in an endonucleolytic manner. At least six autosomal codominant alleles have been characterized, DNASE1*1 through DNASE1*6, and the sequence of DNASE1*2 represented in this record. Mutations in this gene have been associated with systemic lupus erythematosus (SLE), an autoimmune disease. A recombinant form of this protein is used to treat the one of the symptoms of cystic fibrosis by hydrolyzing the extracellular DNA in sputum and reducing its viscosity. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.

Form Freeze-dried powder

Molecular Mass 28kDa as determined by SDS-PAGE reducing conditions.

Endotoxin <1.0EU per 1g (determined by the LAL method).

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Purity	>92%
Characteristic	The isoelectric point is 4.6.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	DNASE1 deoxyribonuclease 1 [Homo sapiens (human)]
Official Symbol	DNASE1
Synonyms	DNL1; DRNI; DNase I, lysosomal; Dornase alfa; deoxyribonuclease I; human urine deoxyribonuclease I; deoxyribonuclease-1
Gene ID	1773
mRNA Refseq	NM_001351825.1

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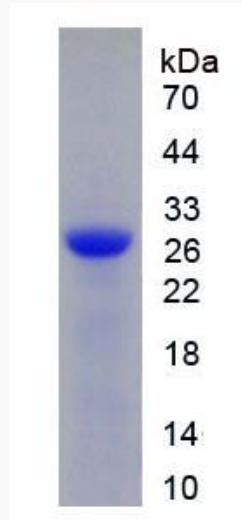
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Protein Refseq NP_001338754.1

UniProt ID P24855

SDS-PAGE



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