

Recombinant Human DNASE1 protein

Cat. No. DNASE1-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human deoxyribonuclease I (a glycosylated, polypeptide chain containing 260 amino acids) without tag was produced in CHO. DNase is purified by proprietary chromatographic techniques. Specific activity is 1000IU/1mg.
Species	Human
Source	CHO
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	Sterile liquid colorless solution
Molecular Mass	37 kDa
Unit Definition	Dnase is generally assayed according to the photometric method developed by Kunitz. One Dnase unit results in an increase in absorbance at 260 nm of

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0.001/minute at 25 centigrade when acting upon highly polymerized solution of DNA at pH-5. Also 0.005 Kunitz unit digests 1g of lambda phage DNA in 10 minutes at 37 centigrade in 50mM Tris, 1mMMg++, pH 7.8 in a 50 µL reaction.

Notes

This product is furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Stability

2 years when stored at 4 centigrade, three weeks at 15 centigrade, pH-6.3.

Concentration

1 mg/mL

Storage Buffer

Each mg contains 150 g calcium chloride dehydrate and 8.77 mg NaCl.

GENE INFORMATION

Gene Name

DNASE1 deoxyribonuclease 1 [Homo sapiens (human)]

Official Symbol

DNASE1

Synonyms

EC 3.1.21.1; Deoxyribonuclease I; DNase I; DNL1; DRNI; FLJ38093; DNASE1; deoxyribonuclease-1; DNase I, lysosomal; Dornase alfa; deoxyribonuclease I; human urine deoxyribonuclease I; EC 3.1.21.1

Gene ID

1773

mRNA Refseq

NM_005223

Protein Refseq

NP_005214

MIM

125505

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UniProt ID

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