

Recombinant Human DNASE1 Protein, GST-tagged

Cat. No. DNASE1-2774H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human DNASE1 full-length ORF (NP_005214.2, 1 a.a. - 282 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>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. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	57.8 kDa
AA Sequence	<p>MRGMKLLGALLALAALLQGAVSLKIAAFNIQTFGETKMSNATLVSYIVQILSRDIALV QEVDRSHLTAVGKLLDNLNQQDAPDTYHYVVSEPLGRNSYKERYLFVYRPDQVSAVD SYYYDDGCEPCGNDTFNREPAIVRFFSRFTEVREFAIVPLHAAPGDVAEIDALYDV YLDVQEKWGLEDVMLMGDFNAGCSYVRPSQWSSIRLWTSPTFQWLIPDSADTTAT</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



PTHCAYDRIVVAGMLLRGAVVPDSALPFNFQAAYGLSDQLAQAI SDHYPVEVMLK

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

DNASE1 deoxyribonuclease I [Homo sapiens]

Official Symbol

DNASE1

Synonyms

DNASE1; deoxyribonuclease I; DNL1; deoxyribonuclease-1; Dornase alfa; DNase I, lysosomal; human urine deoxyribonuclease I; DRNI; FLJ38093; FLJ44902; DKFZp686H0155;

Gene ID

1773

mRNA Refseq

NM_005223

Protein Refseq

NP_005214

MIM

125505

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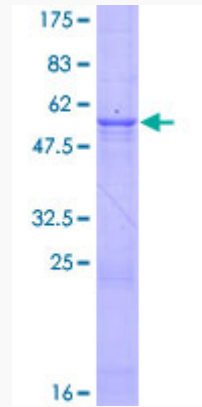
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UniProt ID

P24855

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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