# Recombinant Human DNASE1 Protein, GST-His-tagged

**Cat. No.** DNASE1-775H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human DNASE1 fused with N-terminal GST and C-terminal His was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **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** | 25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1 % Sarkosyl. |
| **Molecular Mass** | 55.2 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration** | >50 ug/mL as determined by microplate BCA method |

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## GENE INFORMATION

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| **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 |
| **UniProt ID** | P24855 |

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