

Recombinant Human DNASE1 Protein (Gly19-Ala259), His tagged

Cat. No. DNASE1-1974H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human DNASE1 (Gly19-Ala259) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly19-Ala259
Description	Serum endocuclease secreted into body fluids by a wide variety of exocrine and endocrine organs. Expressed by non-hematopoietic tissues and preferentially cleaves protein-free DNA. Among other functions, seems to be involved in cell death by apoptosis. Binds specifically to G-actin and blocks actin polymerization. Together with DNASE1L3, plays a key role in degrading neutrophil extracellular traps (NETs). NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation. Degradation of intravascular NETs by DNASE1 and DNASE1L3 is required to prevent formation of clots that obstruct blood vessels and cause organ damage following inflammation.
Form	Lyophilized powder/frozen liquid
Molecular Mass	27.9 kDa
Purity	>90% as determined by SDS-PAGE

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.
GENE INFORMATION	
Gene Name	DNASE1 deoxyribonuclease I [Homo sapiens (human)]
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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