

Deoxyribonuclease gamma (DNASE1L3) Recombinant Protein | DNASE1L3 recombinant protein

Recombinant Human Deoxyribonuclease gamma (DNASE1L3)

CATALOG # AAA235627	HOST E Coli
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PRODUCT SYNONYMS

Deoxyribonuclease gamma (DNASE1L3); Recombinant Human Deoxyribonuclease gamma (DNASE1L3); DNase I homolog protein DHP2; Deoxyribonuclease I-like 3; DNase I-like 3; Liver and spleen DNase; LS-DNase; LSD; DNase gamma; DHP2; DNASE1L3; DNASE1L3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Specificity	Liver and spleen.
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	21-305aa; Full Length of Mature Protein
Sequence	MRICSFNVRS FGESKQEDKN AMDVIVKVIK RCDIILVMEI KDSNNRICPI LMEKLNRSR RGITYNYVIS SRLGRNTYKE QYAFLYKEKL VSVKRSYHYH DYQDGDADV SREPFVWFQ SPHTAVKDFV IIPLHTTPET SVKEIDELVE VYTDVKHRWK AENFIFMGDF NAGCSYVPPK AWKNIRLRTD PRFVLIGDQ EDTTVKKSTN CAYDRIVLRG QEIVSSVVPK SNSVDFQKA YKLTREEALD VSDHFPVEFK LQSSRAFTNS KKSRTLRRKT KSKRS
Species	Human
Tag	Tag-Free
Subcellular Location	Nucleus, Endoplasmic Reticulum, Secreted
Protein Families	DNase I family
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

ADDITIONAL INFORMATION

Related Product Information for DNASE1L3 recombinant protein	Has DNA hydrolytic activity. Is capable of both single- and double-stranded DNA cleavage, producing DNA fragments with 3'-OH ends. Can cleave chromatin to nucleosomal units and cleaves nucleosomal and liposome-coated DNA. Acts in internucleosomal DNA fragmentation during apoptosis and necrosis. The role in apoptosis includes myogenic and neuronal differentiation, and BCR-mediated clonal deletion of self-reactive B cells. Is active on chromatin in apoptotic cell-derived membrane-coated microparticles and thus suppresses anti-DNA autoimmunity. Together with DNASE1, plays a key role in degrading neutrophil extracellular traps. 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.
References	"cDNA cloning of human DNase gamma: chromosomal localization of its gene and enzymatic properties of recombinant protein." Shiokawa D., Hirai M., Tanuma S. Apoptosis 3:89-95(1998).

NCBI AND UNIPROT INFORMATION

NCBI GI #	2494173
NCBI GeneID	1776
UniProt Accession #	Q13609
Molecular Weight	33.4 kDa
NCBI Official Full Name	Deoxyribonuclease gamma
NCBI Official Synonym Full Names	deoxyribonuclease 1 like 3
NCBI Official Symbol	DNASE1L3
NCBI Official Synonym Symbols	LSD; DHP2; SLEB16; DNAS1L3
NCBI Protein Information	deoxyribonuclease gamma
UniProt Protein Name	Deoxyribonuclease gamma
UniProt Gene Name	DNASE1L3
UniProt Synonym Gene Names	DHP2; DNAS1L3; DNase gamma; DNase I-like 3; LS-DNase; LSD
UniProt Entry Name	DNLS3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dnase1l3-recombinant-protein-e-coli/235627>