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Datasheet for ABIN7317198 DNASE1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	DNASE1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNASE1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human DNASE1/Deoxyribonuclease I/DNL1 Protein (His Tag)
Sequence:	Met 1-Lys282
Characteristics:	A DNA sequence encoding the human DNASE1 (P24855) (Met1-Lys282) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	DNASE1
Alternative Name:	DNASE1/Deoxyribonuclease I/DNL1 (DNASE1 Products)
Background:	Background: DNase1, also known as deoxyribonuclease I and DNL1, is a member of the DNase family. DNase1 is a nuclease that cleaves DNA preferentially at phosphodiester linkages adjacent to a pyrimidine nucleotide, yielding 5'-phosphate-terminated polynucleotides with a

Target Details

free hydroxyl group on position 3', on average producing tetranucleotides. DNaseI binds to the cytoskeletal protein actin. It binds actin monomers with very high (sub-nanomolar) affinity and actin polymers with lower affinity. Mutations in DNase1 gene have been associated with systemic lupus erythematosus (SLE), an autoimmune disease. DNase1 is used to treat the one of the symptoms of cystic fibrosis by hydrolyzing the extracellular DNA in sputum and reducing its viscosity.

Synonym: DNL1,DRNI

Molecular Weight: 30.7 kDa

UniProt: [P24855](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.