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Datasheet for ABIN7505085
DNASE1 Protein (AA 23-259) (His tag)

Overview

Quantity:	100 µg
Target:	DNASE1
Protein Characteristics:	AA 23-259
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNASE1 protein is labelled with His tag.

Product Details

Sequence:	Leu 23-Ala 259
Characteristics:	A DNA sequence encoding the Human DNase-I protein (P24855) (Leu 23-Ala 259) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	DNASE1
Alternative Name:	DNase-I (DNASE1 Products)
Background:	Abbreviation: DNase-I Target Synonym: DNL1,DRNI,DNL1,Deoxyribonuclease-1,DNase I 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

Target Details

adjacent to a pyrimidine nucleotide, yielding 5'-phosphate-terminated polynucleotides with a 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.

Molecular Weight: Calculated MW: 25.96 kDa
 Observed MW: 31 kDa

UniProt: [P24855](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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.

Expiry Date: 12 months