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Datasheet for ABIN5706727 Deoxyribonuclease I

Overview	
Quantity:	100 units
Product Details	
Purpose:	Deoxyribonuclease I
Purification:	Deoxyribonuclease I is Lyophilized in vials. Each 10,000 unit vial contains 2 mg glycine, 2 μ moles calcium, and \geq 10,000 units of DNase I. Each 2,500 unit vial contains 0.5 mg glycine, 0.5 μ moles calcium, and \geq 2,500 units of DNase I. Dissolving the entire 10,000 unit vial in 5 ml, or the entire 2,500 unit vial in 1.25 ml, provides the equivalent of a 1 mg/ml solution. (ku = 1000un). Store at 2 - 8°C.
Biological Activity Comment:	2,290 Kunitz/mL
Unit Definition:	Deoxyribonuclease I application is one unit will cause an increase in the absorbance at 260 nm of 0.001 per minute per ml at 25° C, pH 5.0 when acting on highly polymerized DNA according to the assay method of Kunitz (J.Gen.Physiol. 33, 349 and 363 (1950)).
Target Details	
Gene ID:	282217, 9913
UniProt:	P00639
Application Details	
Application Notes:	Application Note:A solution in 1 mM Calcium Chloride and 50 $\%$ (v/v) glycerol. Specific conditions for reactivity should be optimized by the end user.
Comment:	Synonyms: Deoxyribonuclease I reagent, DNL1 Background: Deoxyribonuclease I (usually called DNase I), is an endonuclease coded by the human gene DNASE1. DNase I is a nuclease that cleaves DNA preferentially at phosphodiester linkages adjacent to a pyrimidine nucleotide, yielding 5'-phosphate-terminated polynucleotides

Application Details

Gene Name: DNASE1
prevents damage of the genetic information.
enzymatically inactive, the DNase-actin complex might be a storage form of DNase I that
lower affinity. The function of this interaction is unclear. However, since actin-bound DNase I is
actin. It binds actin monomers with very high (sub-nanomolar) affinity and actin polymers with
responsible for DNA fragmentation during apoptosis. DNase I binds to the cytoskeletal protein
management endonuclease, it has been suggested to be one of the deoxyribonucleases
single-stranded DNA, double-stranded DNA, and chromatin. In addition to its role as a waste-
with a free hydroxyl group on position 3', on average producing tetranucleotides. It acts on

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: See application note.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:

Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)