
Product Data Sheet

Product Name: DNase Human
Cat. No.: GP21566
Batch No.: 1

Product Data

Purity	Source	Chinese Hamster Ovary Cells.
Physical Appearance	Sterile liquid colorless solution at a concentration of 1mg/ml. Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 3.1.21.1; Deoxyribonuclease I; DNase I; DNL1; DRNI; FLJ38093; DNASE1.	
Formulation	Each mg contains 150 g calcium chloride dehydrate and 8.77 mg NaCl.	

Introduction

Deoxyribonuclease I Human Recombinant (rhDNase), an enzyme which selectively cleaves DNA. Recombinant Human Dnase is an endonuclease enzyme which splits phosphodiester linkages within polynucleotides, acting primarily on single stranded DNA (ssDNA), double stranded DNA (ddDNA) and chromatin. Dnase is activated by bivalent metals such as Mg⁺² and Ca⁺². Dnase enzymes are common reagents used in biochemical methods requiring digestion of DNA and recovery of RNA, or where DNA is to be removed without affecting structural proteins or enzymes. Dnase enzymes are also used in tissue culture to digest DNA from damaged cells, resulting in reduced viscosity, and for removal of membrane-bound DNA fragments.

Stability

2 years when stored at 4°C, three weeks at 15°C, pH-6.3.

Background

Deoxyribonuclease I Human Recombinant produced in CHO is a glycosylated, polypeptide chain containing 260 amino acids and having a total molecular mass of 37,000 Dalton with a molecular formula of C₁₃₂₁H₁₉₉₉N₃₃₉O₃₉₆S₉. DNase is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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