



Product Datasheet

Product Name	Deoxyribonuclease I Human Recombinant
Cata No	CB500496
Source	<i>Chinese Hamster Ovary Cells</i>
Synonyms	EC 3.1.21.1, Deoxyribonuclease I, DNase I, DNL1, DRNI, FLJ38093, DNASE1.

Description

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.

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 $C_{1321}H_{1995}O_{396}S_9$.

DNase is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile liquid colorless solution at a concentration of 1mg/ml.

Formulation

Each mg contains 150 μ g calcium chloride dehydrate and 8.77 mg NaCl.

Stability

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