
Product Data Sheet

Product Name: RNASEH1 E.Coli
 Cat. No.: GP22223
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ribonuclease HI; RNase HI; Ribonuclease H; RNase H; rnhA; dasF; herA; rnh; sdrA; b0214; JW0204.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMLKQVEI FTDGSCCLGNP GPGGYGAILR YRGREKTFSA GYTRTTNNRM ELMAAIVALE ALKEHCEVIL STDSQYVRQG ITQWIHNWKK RGWKTADKKP VKNVDLWQRL DAALGQHQIK WEWVKGHAGH PENERCDELA RAAAMNPTLE DTGYQVEV.		
Formulation	RNASEH1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 2mM DTT.		

Introduction

RNHA is an endonuclease which specifically degrades the RNA of RNA-DNA hybrids. Localized to the nucleus, the RNHA protein mediates the removal of Okazaki fragment RNA primers which are present on the lagging strand during DNA replication. RNHA catalyzes the endonucleolytic cleavage of RNA to a 5'-phosphomonoester and is capable of binding magnesium or manganese as cofactors.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

RNASEH1 E.coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 178 amino acids (1-155 a.a.) and having a molecular mass of 20kDa. RNASEH1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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