Product Data Sheet

Product Name:	RNASEH2A E.Coli
Cat. No.:	GP22224
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AGS4; JUNB; RNASEHI; RNHIA; RNHL ; Ribonuclease H2 subunit A; Aicardi-Goutieres syndrome 4 protein; RNase H(35); Ribonuclease HI large subunit; RNase HI large subunit; EC=3.1.26.4.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDLSELE RDNTGRCRLS SPVPAVCRKE PCVLGVDEAG RGPVLGPMVY AICYCPLPRL ADLEALKVAD SKTLLESERE RLFAKMEDTD FVGWALDVLS PNLISTSMLG RVKYNLNSLS HDTATGLIQY ALDQGVNVTQ VFVDTVGMPE TYQARLQQSF PGIEVTVKAK ADALYPVVSA ASICAKVARD QAVKKWQFVE KLQDLDTDYG SGYPNDPKTK AWLKEHVEPV FGFPQFVRFS WRTAQTILEK EAEDVIWEDS ASENQEGLRK ITSYFLNEGS QARPRSSHRY FLERGLESAT SL.		
Formulation	The RNASEH2A solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Ribonuclease H2 subunit A (RNASEH2A) is a member of the RNase HII family and eukaryotic subfamily. RNASEH2A Plays a part in DNA replication, probably by mediating the removal of lagging-strand Okazaki fragment RNA primers throughout DNA replication. RNASEH2A catalyzes the endonucleolytic cleavage of RNA to a 5б-phosphomonoester and is capable to bind magnesium or manganese as cofactors. Aicardi-Goutieres syndrome type 4 (AGS4) caused by defects in RNASEH2A.

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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Background

RNASEH2ARecombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 322 amino acids (1-299) and having a molecular mass of 35.8kDa.RNASEH2A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA