





Recombinant Human Ribonuclease H1 (RNASEH1)

Product Code	CSB-EP019801HU
Relevance	Endonuclease that specifically degrades the RNA of RNA-DNA hybrids (PubMed:10497183). Plays a role in RNA polymerase II (RNAp II) transcription termination by degrading R-loop RNA-DNA hybrid formation at G-rich pause sites located downstream of the poly(A) site and behind the elongating RNAp II
Abbreviation	Recombinant Human RNASEH1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O60930
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MSWLLFLAHRVALAALPCRRGSRGFGMFYAVRRGRKTGVFLTWNECRAQVD RFPAARFKKFATEDEAWAFVRKSASPEVSEGHENQHGQESEAKASKRLREPL DGDGHESAEPYAKHMKPSVEPAPPVSRDTFSYMGDFVVVYTDGCCSSNGRR RPRAGIGVYWGPGHPLNVGIRLPGRQTNQRAEIHAACKAIEQAKTQNINKLVLY TDSMFTINGITNWVQGWKKNGWKTSAGKEVINKEDFVALERLTQGMDIQWMH VPGHSGFIGNEEADRLAREGAKQSED
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	RNASEH1
Protein Names	Ribonuclease H type II RNH1
Expression Region	1-286aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	37.6 kDa
Protein Length	Full Length
Image	

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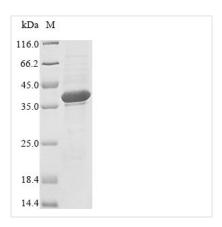


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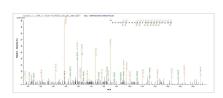
☐ Email: cusabio@cusabio.com ☐ Website: www.cusabio.com ☐



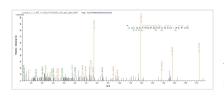




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP019801HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) RNASEH1.



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Description

Discover the power of precision with our Recombinant Human RNASEH1 protein, an essential tool for advancing research in epigenetics and nuclear signaling. Ribonuclease H1 (RNase H1; Ribonuclease H type II) is a critical enzyme involved in the removal of RNA:DNA hybrids formed during replication, transcription, and repair processes. RNASEH1 plays a pivotal role in maintaining genome stability and has been implicated in various biological pathways, making it an important target for scientific inquiry.

Our Recombinant Human RNASEH1 protein is expressed in E.coli, resulting in a full-length protein (1-286aa) that retains its native folding and function. The Nterminal 6xHis-tag allows for efficient purification, while the purity of the protein, greater than 85% as determined by SDS-PAGE, ensures consistent and reliable results for your research endeavors. Available in both liquid and lyophilized powder forms, our Recombinant Human RNASEH1 protein is the ideal choice for your epigenetic and nuclear signaling investigations.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.