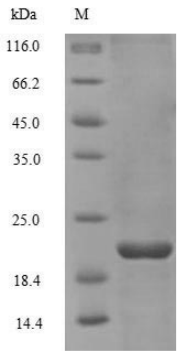
Recombinant Human Non-secretory ribonuclease (RNASE2)

Product Code	CSB-EP019794HU
Relevance	This is a non-secretory ribonuclease. It is a pyrimidine specific nuclease with a slight preference for U. Cytotoxin and helminthotoxin. Selectively chotactic for dendritic cells. Possesses a wide variety of biological activities.
Abbreviation	Recombinant Human RNASE2 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.	P10153
Alias	Eosinophil-derived neurotoxinRNase UpI-2Ribonuclease 2 ;RNase 2Ribonuclease US
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KPPQFTWAQWFETQHINMTSQQCTNAMQVINNYQRRCKNQNTFLLTTFANVV NVCGNPNMTCPSNKTRKNCHHSGSQVPLIHCNLTTPSPQNISNCRYAQTPAN MFYIVACDNRDQRRDPPQYPVVPVHLDRII
Research Area	Immunology
Source	E.coli
Target Names	RNASE2
Expression Region	28-161aa
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	19.5kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

The production of the recombinant Human RNASE2 protein begins with the creation of the recombinant plasmid, which is synthesized by inserting the gene encoding the Human RNASE2 protein (28-161aa) into a plasmid vector. The recombinant plasmid is introduced into e.coli cells. e.coli cells that can survive in the presence of a specific antibiotic are selected and then cultured under conditions conducive to the expression of the gene of interest. The protein is equipped with a N-terminal 6xHis tag. Following expression, the recombinant RNASE2 protein is isolated and purified from the cell lysate using affinity purification. Denaturing SDS-PAGE is then employed to resolve the resulting recombinant Human RNASE2 protein, demonstrating a purity exceeding 90%.

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

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