

Non-secretory ribonuclease Recombinant Protein | RNASE2 recombinant protein

Recombinant Human Non-secretory ribonuclease

CATALOG # AAA114100	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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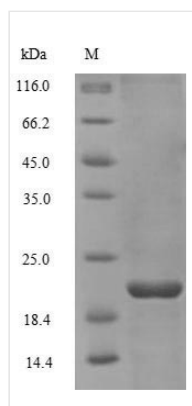
PRODUCT SYNONYMS

Non-secretory ribonuclease; Recombinant Human Non-secretory ribonuclease; Eosinophil-derived neurotoxin; RNase UpI-2; Ribonuclease 2; RNase 2; Ribonuclease US; RNASE2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	28-161aa; Full Length of Mature Protein
Sequence	KPPQFTWAQW FETQHINMTS QQCTNAMQVI NNYQRRCKNQ NTFLLTTFAN VVNVCGNP NM TCPSNKTRKN CHHSGSQVPL IHCNLTTPSP QNISNCRYAQ TPANMFYIVA CDNRDQRRDP PQYPVVPVHL DRII
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for RNASE2 recombinant protein	This is a non-secretory ribonuclease. It is a pyrimidine specific nuclease with a slight preference for U. Cytotoxin and helminthotoxin. Selectively cytotoxic for dendritic cells. Possesses a wide variety of biological activities.
Product Categories/Family for RNASE2 recombinant protein	Immunology

References

Sequence of human eosinophil-derived neurotoxin cDNA identity of deduced amino acid sequence with human nonsecretory ribonucleases.Hamann K.J., Barker R.L., Loegering D.A., Pease L.R., Gleich G.J.Gene 83:161-167(1989) Eosinophil cationic protein cDNA. Comparison with other toxic cationic proteins and ribonucleases.Barker R.L., Loegering D.A., Ten R.M., Hamann K.J., Pease L.R., Gleich G.J.J. Immunol. 143:952-955(1989) Molecular cloning of the human eosinophil-derived neurotoxin a member of the ribonuclease gene family.Rosenberg H.F., Tenen D.G., Ackerman S.J.Proc. Natl. Acad. Sci. U.S.A. 86:4460-4464(1989) Structure and chromosome localization of the human eosinophil-derived neurotoxin and eosinophil cationic protein genes evidence for intronless coding sequences in the ribonuclease gene superfamily.Hamann K.J., Ten R.M., Loegering D.A., Jenkins R.B., Heise M.T., Schad C.R., Pease L.R., Gleich G.J., Barker R.L.Genomics 7:535-546(1990) Sequence variation at two eosinophil-associated ribonuclease loci in humans.Zhang J., Rosenberg H.F.Genetics 156:1949-1958(2000) Simonsen C.C., Kennedy J., Comstock L., Ashton N., McGrogan M. Amino acid sequence of the nonsecretory ribonuclease of human urine.Beintema J.J., Hofsteenge J., Iwama M., Morita T., Ohgi K., Irie M., Sugiyama R.H., Schieven G.L., Dekker C.A., Glitz D.G.Biochemistry 27:4530-4538(1988) Biochemical and functional similarities between human eosinophil-derived neurotoxin and eosinophil cationic protein homology with ribonuclease.Gleich G.J., Loegering D.A., Bell M.P., Checkel J.L., Ackerman S.J., McKean D.J.Proc. Natl. Acad. Sci. U.S.A. 83:3146-3150(1986) Purification and properties of bovine kidney ribonucleases.Niwata Y., Ohgi K., Sanda A., Takizawa Y., Irie M.J. Biochem. 97:923-934(1985) Purification and characterization of a ribonuclease from human liver.Sorrentino S., Tucker G.K., Glitz D.G.J. Biol. Chem. 263:16125-16131(1988) Characterization of a unique nonsecretory ribonuclease from urine of pregnant women.Sakakibara R., Hashida K., Kitahara T., Ishiguro M.J. Biochem. 111:325-330(1992) Characterisation of UGP and its relationship with beta-core fragment.Kardana A., Bagshawe K.D., Coles B., Read D., Taylor M.Br. J. Cancer 67:686-692(1993) New type of linkage between a carbohydrate and a protein C-glycosylation of a specific tryptophan residue in human RNase Us.Hofsteenge J., Mueller D.R., de Beer T., Loeffler A., Richter W.J., Vliegthart J.F.G.Biochemistry 33:13524-13530(1994) The hexopyranosyl residue that is C-glycosidically linked to the side chain of tryptophan-7 in human RNase Us is alpha-mannopyranose.de Beer T., Vliegthart J.F.G., Loeffler A., Hofsteenge J.Biochemistry 34:11785-11789(1995) Recognition signal for C-mannosylation of Trp-7 in RNase 2 consists of sequence Trp-x-x-Trp.Krieg J., Hartmann S., Vicentini A., Glasner W., Hess D., Hofsteenge J.Mol. Biol. Cell 9:301-309(1998) Mutational analysis of the complex of human RNase inhibitor and human eosinophil-derived neurotoxin (RNase 2) .Teufel D.P., Kao R.Y., Acharya K.R., Shapiro R.Biochemistry 42:1451-1459(2003) Eosinophil-derived neurotoxin (EDN) , an antimicrobial protein with chemotactic activities for dendritic cells.Yang D., Rosenberg H.F., Chen Q., Dyer K.D., Kurosaka K., Oppenheim J.J.Blood 102:3396-3403(2003) Post-translational tyrosine nitration of eosinophil granule toxins mediated by eosinophil peroxidase.Ulrich M., Petre A., Youhnovski N., Proemm F., Schirle M., Schumm M., Pero R.S., Doyle A., Checkel J., Kita H., Thiyagarajan N., Acharya K.R., Schmid-Grendelmeier P., Simon H.-U., Schwarz H., Tsutsui M., Shimokawa H., Bellon G., Lee J.J., Przybylski M., Doering G.J. Biol. Chem. 283:28629-28640(2008) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) X-ray crystallographic structure of recombinant eosinophil-derived neurotoxin at 1.83-A resolution.Mosimann S.C., Newton D.L., Youle R.J., James M.N.G.J. Mol. Biol. 260:540-552(1996) Mapping the ribonucleolytic active site of eosinophil-derived neurotoxin (EDN) . High resolution crystal structures of EDN complexes with adenylic nucleotide inhibitors.Leonidas D.D., Boix E., Prill R., Suzuki M., Turton R., Minson K., Swaminathan G.J., Youle R.J., Acharya K.R.J. Biol. Chem. 276:15009-15017(2001) Molecular recognition of human eosinophil-derived neurotoxin (RNase 2) by placental ribonuclease inhibitor.Iyer S., Holloway D.E., Kumar K., Shapiro R., Acharya K.R.J. Mol. Biol. 347:637-655(2005) Crystal structures of eosinophil-derived neurotoxin (EDN) in complex with the inhibitors 5'-ATP, Ap3A, Ap4A, and Ap5A.Baker M.D., Holloway D.E., Swaminathan G.J., Acharya K.R.Biochemistry 45:416-426(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506549
NCBI GeneID	6036
NCBI Accession #	NP_002925.1
NCBI GenBank Nucleotide #	NM_002934.2
UniProt Accession #	P10153; Q52M39; Q9H2B7; Q9UCG7
Molecular Weight	19.5 kDa
NCBI Official Full Name	non-secretory ribonuclease
NCBI Official Synonym Full Names	ribonuclease A family member 2

NCBI Official Symbol	RNASE2
NCBI Official Synonym Symbols	EDN; RAF3; RNS2
NCBI Protein Information	non-secretory ribonuclease
UniProt Protein Name	Non-secretory ribonuclease
UniProt Gene Name	RNASE2
UniProt Synonym Gene Names	EDN; RNS2; RNase 2
UniProt Entry Name	RNAS2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/rnase2-recombinant-protein-e-coli/114100>