

Recombinant human RNASE2 protein

Catalog Number: ATGP4065

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

28-161aa

UniProt No.

P10153

NCBI Accession No.

NP_002925.1

Alternative Names

ribonuclease A family member 2, EDN, RAF3, RNS2, non-secretory ribonuclease, Eosinophil-derived neurotoxin, RNase Upl-2, Ribonuclease 2, RNase 2, Ribonuclease US

PRODUCT SPECIFICATION

Molecular Weight

16.5kDa (143aa)

Concentration

1mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 90% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

RNASE2, is a non-secretory ribonuclease that belongs to the pancreatic ribonuclease family, a subset of the ribonuclease A superfamily. The protein is found in eosinophil granulocytes and closely related to the eosinophil cationic protein (RNASE3) from which it diverged 50 million years ago after the split between the old world and

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the new world monkeys. It is relatively neutral and has cytotoxic properties. It may generate host defense via roles in promoting leukocyte activation, maturation, and chemotaxis. It has also been studied in the context of defense against pathogen infection in mammals. Recombinant human RNASE2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

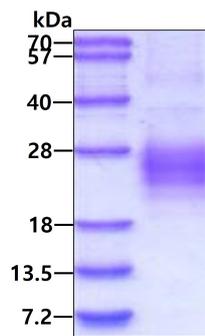
<ADP>KPPQFTW AQWFETQHIN MTSQQCTNAM QVINNYQRRK KNQNTFLLTT FANVVNVCGN PNMTCP SNKT
RKNCHHSGSQ VPLIHCNLTTPSPQNISNCR YAQTPANMFY IVACDNRDQR RDPPQYPVVP VHLDRII<HHH HHH>

General References

Rosenberg HF., et al, (2015) Int J Mol Sci. 14:15442-15455.
Levin AM., et al, (2019) J Allergy Clin Immunol. 143:1791-1802.
Ostendorf T., et al, (2020) Immunity. 52:591-605.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain