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# Recombinant human Renalase protein

Catalog Number: ATGP1732

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
18-342aa

**UniProt No.**
Q5VYX0

**NCBI Accession No.**
NP_001026879

**Alternative Names**
Renalase, C10orf59, RENALASE

## PRODUCT SPECIFICATION

**Molecular Weight**
38.8 kDa (349aa)

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 10% glycerol

**Purity**
> 90% by SDS-PAGE

**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**
Renalase, also known as RNLS, is a flavin adenine dinucleotide-dependent amine oxidase that is secreted into the blood from the kidney. It is also suggested that RNLS functions as a hormone that metabolizes circulating catecholamines, which have an active role in the sympathetic and parasympathetic nervous systems. A high concentration of catecholamines activate plasma RNLS and promotes its secretion and synthesis. Recombinant human RNLS protein, fused to His-tag at N-terminus, was expressed in E. coli.

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**Amino acid Sequence**

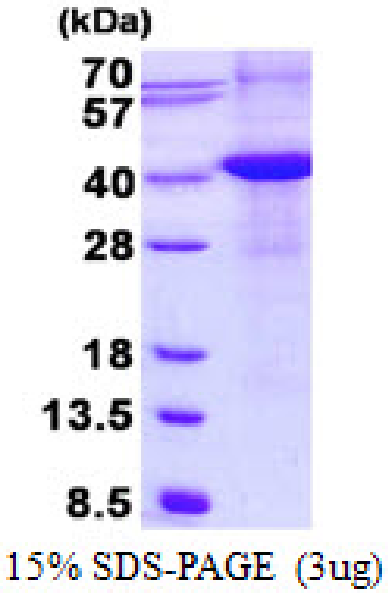
<MGSSHHHHHH SSGLVPRGSH MGSM>ALLRRQ TSGPLYLAVW DKAEDSGGRM TTACSPHNPQ CTADLGAQYI TCTPHYAKKH QRFYDELLAY GVLRPLSSPI EGMVMKEGDC NFVAPQGISS IIKHYLKESG AEVYFRHRVT QINLRDDKWE VSKQTGSPEQ FDLIVLTMPV PEILQLQGDI TTLISECQRQ QLEAVSYSSR YALGLFYEAG TKIDVPWAGQ YITSNPCIRF VSIDNKKRNI ESSEIGPSLV IHTTVPFGVT YLEHSIEDVQ ELVFQQLENI LPGLPQPIAT KCQKWRHSQV TNAAANCPGQ MTLHHKPFLA CGGDGFTQSN FDGCITSALC VLEALKNYI

**General References**

Xu J., et al. (2007) Curr Poin Nephol Hypertens. 16:373-378.
Li G., et al. (2008) Circulation. 117:1277-1282.

## DATA

**SDS-PAGE**




15% SDS-PAGE (3ug)

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