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, Denatured

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

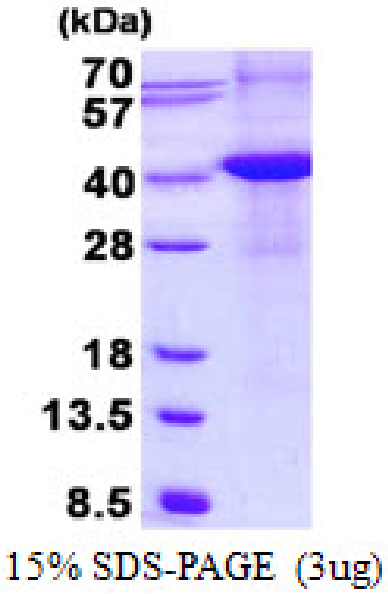
<MGSSHHHHHH SSGLVPRGSH MGSM>ALLRRQ TSGPLYLAVW DKAEDSGGRM TTACSPHNPQ CTADLGAQYI TCTPHYAKKH QRFYDELLAY GVLRPLSSPI EGMVMKEGDC NFVAPQGISS IIKHYLKESG AEVYFRHRVT QINLRDDKWE VSKQTGSPEQ FDLIVLTMPV PEILQLQGDI TTLISECQRQ QLEAVSYSSR YALGLFYEAG TKIDVPWAGQ YITSNPCIRF VSIDNKKRNI ESSEIGPSLV IHTTVPFGVT YLEHSIEDVQ ELVFQQLENI 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.