Renalase (RNLS) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Renalase (RNLS), Recombinant Protein
Full Product Name	Recombinant Human Renalase (RNLS)
Product Gene Name	RNLS recombinant protein
Product Synonym Gene Name	RNLS
Sequence	ALLRRQTSGP LYLAVWDKAE DSGGRMTTAC SPHNPQCTAD LGAQYITCTP HYAKKHQRFY DELLAYGVLR PLSSPIEGMV MKEGDCNFVA PQGISSIIKH YLKESGAEVY FRHRVTQINL RDDKWEVSKQ TGSPEQFDLI VLTMPVPEIL QLQGDITTLI SECQRQQLEA VSYSSRYALG LFYEAGTKID VPWAGQYITS NPCIRFVSID NKKRNIESSE IGPSLVIHTT VPFGVTYLEH SIEDVQELVF QQLENILPGL PQPIATKCQK WRHSQVTNAA ANCPGQMTLH HKPFLACGGD GFTQSNFDGC ITSALCVLEA LKNYI
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	34,949 Da
Sequence Positions	18-342, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	609360
3D Structure	ModBase 3D Structure for Q5VYX0
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RNLS recombinant protein	MBS1332492 is a recombinant protein targeting RNLS. Also known as Recombinant Human Renalase (RNLS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RNLS recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNLS. It may not necessarily be applicable to this product.

NCBI GI #	237649117
NCBI GeneID	55328
NCBI Accession #	NP_001026879.2
UniProt Primary Accession #	Q5VYX0

UniProt Secondary Accession #	Q9BS33; Q9NUP8
UniProt Related Accession #	Q5VYX0
GenBank Nucleotide #	NM_001031709.2
NCBI Official Full Name	renalase isoform 1
NCBI Official Synonym Full Names	renalase, FAD dependent amine oxidase
NCBI Official Symbol	RNLS
NCBI Official Synonym Symbols	C10orf59; RENALASE
UniProt Protein Name	Renalase
UniProt Synonym Protein Names	Monoamine oxidase-C; MAO-C
UniProt Gene Name	RNLS
UniProt Synonym Gene Names	C10orf59; MAO-C
NCBI Protein Information	renalase
NCBI Summary for RNLS	Renalase is a flavin adenine dinucleotide-dependent amine oxidase that is secreted into the blood from the kidney (Xu et al., 2005 [PubMed 15841207]).[supplied by OMIM, Mar 2008]
UniProt Comments for RNLS	Catalyzes the oxidation of the less abundant 1,2-dihydro-beta-NAD(P) and 1,6-dihydro-beta-NAD(P) to form beta-NAD(P)+. The enzyme hormone is secreted by the kidney, and circulates in blood and modulates cardiac function and systemic blood pressure. Lowers blood pressure in vivo by decreasing cardiac contractility and heart rate and preventing a compensatory increase in peripheral vascular tone, suggesting a causal link to the increased plasma catecholamine and heightened cardiovascular risk. High concentrations of catecholamines activate plasma renalase and promotes its secretion and synthesis.
Research Articles on RNLS	**1.** There is a high level of circulating renalase and advanced oxidation protein products in the heamodialysis patients.
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