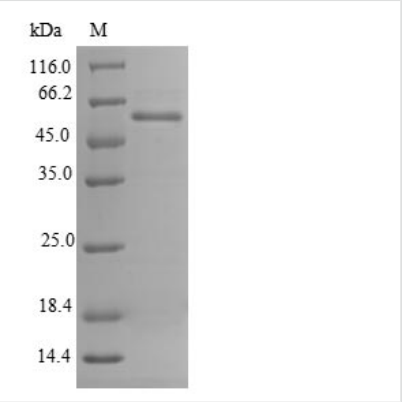
Recombinant Mouse Renalase (Rnls)

Product Code	CSB-EP417267MO
Relevance	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.
Abbreviation	Recombinant Mouse Rnls protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	A7RDN6
Alias	Monoamine oxidase-C
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ALLRKEITAPLYLGLWDKGGDIGGRMITASSPHNPRCTADLGAQYITCSPHYVK EHQNFYEELLAHGILKPLTSPIEGMKGKEGDCNFVAPQGFSSVIKYYLKKSGAE VSLKHCVTQIHLKDNKWEVSTDTGSAEQFDLVILTMPAPQILELQGDIVNLISER QREQLKSVSYSSRYALGLFYEVGMKIGVPWSCRYLSSHPCICFISIDNKKRNIE SSECGPSVVIQTTVPFGVQHLEASEADVQKLMIQQLETILPGLPQPVATICHKW TYSQVTSSVSDRPGQMTLHLKPFLVCGGDGFTHSNFNGCISSALSVMKVLKR YI
Research Area	Neuroscience
Source	E.coli
Target Names	Rnls
Protein Names	Recommended name: Renalase EC= 1.4.-.- Alternative name(s): Monoamine oxidase-C Short name= MAO-C Short name= mMAO-C
Expression Region	18-342aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	52.0kDa
Protein Length	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Constructing a plasmid encoding the Mouse Rnls protein (18-342aa) is the initial step in the general approach to express the recombinant Mouse Rnls protein. The plasmid is then transformed into e.coli cells. Positive e.coli cells are selected and cultured, protein expression is induced, and cells are lysed. The protein is fused with a N-terminal 6xHis-SUMO tag. The resulting recombinant Mouse Rnls protein is then purified through affinity purification, and SDS-PAGE analysis is carried out to verify the presence and assess the purity of the protein. Its purity exceeds 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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