

## Renalase Protein, Mouse, Recombinant (His &amp; SUMO)

## General Information

Synonyms: Renalase;Rnls;Monoamine oxidase-C (MAO-C;mMAO-C)

Protein Construction: 18-342 aa

Species: Mouse

Expression Host: E. coli

Accession: A7RDN6

Molecular Weight: 52.0 kDa (predicted)

AA Sequence:

ALLRKEITAPLYLGLWDKGGDIGGRMITASSPHNPRCTADLGAQYITCSPHYVKEHQNFYEELLAHGILKPLTS  
PIEGMKGKEGDCNFVAPQGFSSVIKYYLKKSGAEVSLKHCVTQIHLKDNKWEVSTDTGSAEQFDLVILTMPAP  
QILELQGDIVNLISERQREQLKSVSYSSRYALGLFYEVGMKIGVPWSCRYSHPICFISIDNKKRNIESSECGP  
SVVIQTTVPFGVQHLEASEADVQKLMIQQLETILPGLPQPVATICHKWTYSQVTSSVSDRPGQMTLHLKPFLVC  
GGDGFTHSNFNGCISSALSVMKVLKRYI

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

## Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

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.

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