

# Recombinant Rattus norvegicus Ribosyldihyronicotinamide dehydrogenase

Catalog No: #AP73074

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Package Size: #AP73074-1 20ug #AP73074-2 100ug #AP73074-3 1mg

## Description

Product Name	Recombinant Rattus norvegicus Ribosyldihyronicotinamide dehydrogenase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-231aaSequence Info:Full Length
Other Names	NRH dehydrogenase [quinone] 2NRH:quinone oxidoreductase 2Quinone reductase 2 ;QR2
Accession No.	Q6AY80
Uniprot	Q6AY80
GeneID	291084;
Calculated MW	28.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MAGKKVLLVYAHQEPKSFNGSMKQVAVEELSKQGCTVTVSDLYTMNFEPATRNDVTGALSNPEVFKYGIEA YEAYKKKALTSIDILEEQRKVQEADLVIFQFPLYWFSVPAILKGWMDRVLCQGFADFVPGFYDSGFLKDKLALLS FTTGGTAEMYTKAGVNGDFRYFLWPLQHGTLHFCGFKVLAPQISFGPEVSSEEQRKVMLASWVQRLKSIWKE EPIHCTPSWYFQG
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinones involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent gamma-carboxylation of glutamate residues in prothrombin synthesis.

## References

"Disruption of dihyronicotinamide riboside:quinone oxidoreductase 2 (NQO2) leads to myeloid hyperplasia of bone marrow and decreased sensitivity to menadione toxicity."Long D.J., Iskander K., Gaikwad A., Arin M., Roop D.R., Knox R., Barrios R., Jaiswal A.K.J. Biol. Chem. 277:46131-46139(2002)Research Topic:Others

Note: This product is for in vitro research use only