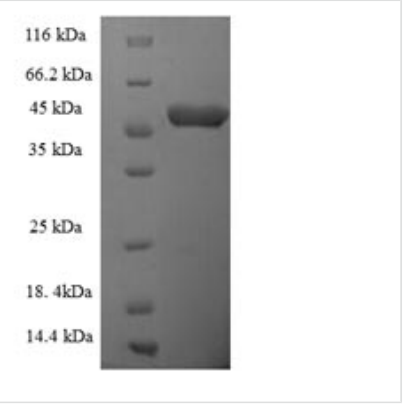
Recombinant Caenorhabditis elegans ATP-dependent (S)-NAD (P)H-hydrate dehydratase (R107.2)

Product Code	CSB-EP333729CXY
Relevance	Catalyzes the dehydration of the S-form of NAD(P)HX at the expense of ATP, which is converted to ADP. Together with NAD(P)HX epimerase, which catalyzes the epimerization of the S- and R-forms, the enzyme allows the repair of both epimers of NAD(P)HX, a damaged form of NAD(P)H that is a result of enzymatic or heat-dependent hydration.
Abbreviation	Recombinant Caenorhabditis elegans R107.2 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.	P32740
Alias	ATP-dependent NAD(P)HX dehydratase
Product Type	Recombinant Protein
Immunogen Species	Caenorhabditis elegans
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDHFIKLLPKLTPHLRKGDCGKMGVIGGSLEYTGAPYFAASSASRLGADLIHIF CDPDAAQVIKGYSPDLIVHPGMTANSIIPKLSRMDAIVIGPGLGRNPNIWPLMQ ELFEFVRNRDVPFVIDGDGLWFVSEHIEKFPRQMSATVLTPNIVEFSRLCKSAL GEEDVLNVRNNSQLQHLAAELSRKMNVTIYLKGEVDLVVTPNGEVSKCSTESS LRRCGGQGDVTAGSLGLFLYWAKKNLGDDWTSAHHEAGIASSWLVRTAGRR AFEKHGRSMNTPLLLDEIPKLVRDVETREMKDTVHTDSSKH
Research Area	Others
Source	E.coli
Target Names	R107.2
Protein Names	Recommended name: ATP-dependent (S)-NAD(P)H-hydrate dehydratase EC= 4.2.1.93 Alternative name(s): ATP-dependent NAD(P)HX dehydratase
Expression Region	1-307aa
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	49.9kDa
Protein Length	Full Length

Image



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

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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