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

Catalog No: #AP71056

Package Size: #AP71056-1 20ug #AP71056-2 100ug #AP71056-3 1mg

Signalway Antibody
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Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Caenorhabditis elegans ATP-dependent (S)-NAD(P)H-hydrate dehydratase(R107.2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-307aaSequence Info:Full Length
Other Names	ATP-dependent NAD(P)HX dehydratase
Accession No.	P32740
Calculated MW	49.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MDHFIKLLPKLTPHLRKGDCGKMGVIGGSLEYTGAPYFAASSASRLGADLIHIFCDPDAAQVIKGYSPDLIVHPG MTANSIIPKLSRMDAIVIGPGLGRNPNIWPLMQELFEFVRNRDVPFVIDGDGLWFVSEHIEKFPRQMSATVLTP NIVEFSRLCKSALGEEDVLNVRNNSQLQHLAAELSRKMNVTIYLKGEVDLVVTPNGEVSKCSTESSLRRCGGQ GDVTAGSLGLFLYWAKKNLGDDWTSAHHEAGIASSWLVRTAGRRAFEKHGRSMNTPLLLDEIPKLVRDVETR EMKDTVHTDSSKH
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

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.

References

2.2 Mb of contiguous nucleotide sequence from chromosome III of C. elegans.Wilson R., Ainscough R., Anderson K., Baynes C., Berks M., Bonfield J., Burton J., Connell M., Copsey T., Cooper J., Coulson A., Craxton M., Dear S., Du Z., Durbin R., Favello A., Fraser A., Fulton L. , Gardner A., Green P., Hawkins T., Hillier L., Jier M., Johnston L., Jones M., Kershaw J., Kirsten J., Laisster N., Latreille P., Lightning J., Lloyd C., Mortimore B., O'Callaghan M., Parsons J., Percy C., Rifken L., Roopra A., Saunders D., Shownkeen R., Sims M., Smaldon N., Smith A., Smith M., Sonnhammer E., Staden R., Sulston J., Thierry-Mieg J., Thomas K., Vaudin M., Vaughan K., Waterston R., Watson A., Weinstock L., Wilkinson-Sproat J., Wohldman P.Nature 368:32-38(1994)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.