Nitrile Hydratase Subunit Alpha (nthA) Rhodococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nitrile hydratase subunit alpha (nthA), Recombinant Protein
Full Product Name	Recombinant Rhodococcus sp. Nitrile hydratase subunit alpha (nthA)
Product Gene Name	nthA recombinant protein
Product Synonym Gene Name	nthA
Sequence	MNNIIPTQEE IAARVKALES ILIEQNVIST AMVDRMVEIY EEEVGPKLGA KVVAKAWTDS EFKARLLDDA TEACKELGIS GLQGEDMVVL EDTDDVHHAI VCTLCSCYPW PVLGLPPNWY KEPAYRARIV REPRTVLSEE FNYHLPESTE IRIWDTSSEM RYWVLPQRPE GTEGWSEEQL AELVTRDSMI GVGPVKTPA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	22,490 Da
Sequence Positions	1-199aa, Full Length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q53118
Species	Rhodococcus sp.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nthA recombinant protein	MBS1477960 is a recombinant protein targeting nthA. Also known as Recombinant Rhodococcus sp. Nitrile hydratase subunit alpha (nthA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nthA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for nthA. It may not necessarily be applicable to this product.

NCBI GI #	2499194
NCBI Accession #	Q53118.1
UniProt Primary Accession #	Q53118
NCBI Official Full Name	Nitrile hydratase subunit alpha
UniProt Protein Name	Nitrile hydratase subunit alpha
Protein Family	Nitrile hydratase

UniProt Gene Name	nthA
UniProt Synonym Gene Names	NHase; Nitrilase
UniProt Comments for nthA	NHase catalyzes the hydration of various nitrile compounds to the corresponding amides. Industrial production of acrylamide is now being developed using some of the enzymes of this class.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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