3-Hydroxybenzoate 6-Hydroxylase (nagX) Polaromonas Naphthalenivorans Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-hydroxybenzoate 6-hydroxylase (nagX), Recombinant Protein
Full Product Name	Recombinant Polaromonas naphthalenivorans 3-hydroxybenzoate 6-hydroxylase (nagX)
Product Gene Name	nagX recombinant protein
Product Synonym Gene Name	nagX
Sequence	MSDNPADLPV LVAGGGIGGL AAALALVRRG FSVKVLEQAP EIGEIGAGIQ LGPNAFHAFD ALGIGEKARG RAVYTDEMVM HDAIDGSLVG RIPTGEAFRQ RFGNPYAVIH RVDVHLSLLE GAQETGKVEF LTSTRALRIE QDEGSVTVYD QHGNAHKGIA LIGADGVKSV VREQFVGDAA RVTGHVVYRA VVDKKDFPES LQWNAASIWV GPNCHLVHYP LRGGEQYNVV VTFHSRQPEQ WGVTEGSKEE VQSYFQGICP QARQLIDLPK TWKRWATADR EPIGQWSFGR VTLLGDAAHP TTQYMAQGAC MAMEDGVTLG EALRVNNNDF PKAFELYQRS RVARTARIVL SSREMGRIYH AQGVERLVRN DLWKGRTPER FYDAMEWLYG WNVGNCLAKD
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	44,111 Da
Sequence Positions	1-400, Full length protein
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 Q3S4B7
Species	Polaromonas naphthalenivorans (strain CJ2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for nagX recombinant protein	MBS1280989 is a recombinant protein targeting nagX. Also known as Recombinant Polaromonas naphthalenivorans 3-hydroxybenzoate 6-hydroxylase (nagX). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of nagX 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 nagX. It may not necessarily be applicable to this product.

NCBI GI #	500126508
NCBI Accession #	WP_011802513.1
UniProt Primary Accession #	Q3S4B7

GenBank Nucleotide #	WP_011802513.1
NCBI Official Full Name	3-hydroxybenzoate 6-hydroxylase
UniProt Protein Name	3-hydroxybenzoate 6-hydroxylase
UniProt Gene Name	nagX
UniProt Comments for nagX	Catalyzes the NAD- or NADP-dependent conversion of 3-hydroxybenzoate to gentisate. The affinity of the enzyme toward NAD is twice as high as for NADP.
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