Nicotianamine Synthase 1 (NAS1) Oryza Sativa Subsp. Indica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nicotianamine synthase 1 (NAS1), Recombinant Protein
Full Product Name	Recombinant Oryza sativa subsp. indica Nicotianamine synthase 1 (NAS1)
Product Gene Name	NAS1 recombinant protein
Sequence	MEAQNQEVAA LVEKIAGLHA AISKLPSLSP SAEVDALFTD LVTACVPASP VDVAKLGPEA QAMREELIRL CSAAEGHLEA HYADMLAAFD NPLDHLARFP YYGNYVNLSK LEYDLLVRYV PGIAPTRVAF VGSGPLPFSS LVLAAHHLPD AVFDNYDRCG AANERARRLF RGADEGLGAR MAFHTADVAT LTGELGAYDV VFLAALVGMA AEEKAGVIAH LGAHMADGAA LVVRSAHGAR GFLYPIVDPE DVRRGGFDVL AVCHPEDEVI NSVIVARKVG AAAAAAAARR DELADSRGVV LPVVGPPSTC CKVEASAVEK AEEFAANKEL SV
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	34,933 Da
Sequence Positions	1-332, 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 A2XFU4
Species	Oryza sativa subsp. indica (Rice)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NAS1 recombinant protein	MBS1159664 is a recombinant protein targeting NAS1. Also known as Recombinant Oryza sativa subsp. indica Nicotianamine synthase 1 (NAS1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NAS1 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 NAS1. It may not necessarily be applicable to this product.

NCBI GI #	158513194
NCBI Accession #	A2XFU4.2
UniProt Primary Accession #	A2XFU4
UniProt Secondary Accession #	Q9SXQ7
NCBI Official Full Name	Nicotianamine synthase 1
UniProt Protein Name	Nicotianamine synthase 1

UniProt Synonym Protein Names	S-adenosyl-L-methionine:S-adenosyl-L-methionine:S-adenosyl-methionine 3-amino-3-carboxypropyltransferase 1; OsNAS1
Protein Family	Nicotianamine synthase
UniProt Gene Name	NAS1
UniProt Synonym Gene Names	OsNAS1
UniProt Comments for NAS1	Synthesizes nicotianamine, a polyamine that is the first intermediate in the synthesis of the phytosiderophores of the mugineic acid type found in gramineae which serve as a sensor for the physiological iron status within the plant, and/or might be involved in the transport of iron.
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