Ssra-Binding Protein (smpB) Frankia Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	SsrA-binding protein (smpB), Recombinant Protein
Full Product Name	Recombinant Frankia sp. SsrA-binding protein (smpB)
Product Gene Name	smpB recombinant protein
Product Synonym Gene Name	smpB
Sequence	MPRETGRRLI AQNKRARHDY DILDTYEAGL VLRGTEVKAL RAGRASLVDG FAQISDGEIW LHNVHIPEYT EGTWTNHAPR RKRKMLLHRA EIEKLVGKTQ EGGLTLVPLS LYWKDGRAKI EIALARGRKS YDKRHAIAER DAAREIGRAM GRRAKGRYL
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	18,180 Da
Sequence Positions	1-159, 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 Q2JEV7
Species	Frankia sp. (strain CcI3)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for smpB recombinant protein	MBS1353218 is a recombinant protein targeting smpB. Also known as Recombinant Frankia sp. SsrA-binding protein (smpB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of smpB 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 smpB. It may not necessarily be applicable to this product.

NCBI GI #	499754520
NCBI Accession #	WP_011435254.1
UniProt Primary Accession #	Q2JEV7
GenBank Nucleotide #	WP_011435254.1
NCBI Official Full Name	MULTISPECIES: SsrA-binding protein
UniProt Protein Name	SsrA-binding protein

UniProt Synonym Protein Names	Small protein B
Protein Family	SsrA-binding protein
UniProt Gene Name	smpB
UniProt Comments for smpB	Required for rescue of stalled ribosomes mediated by trans-translation. Binds to transfer-messenger RNA (tmRNA), required for stable association of tmRNA with ribosomes. tmRNA and SmpB together mimic tRNA shape, replacing the anticodon stem-loop with SmpB. tmRNA is encoded by the ssrA gene; the 2 termini fold to resemble tRNA(Ala) and it encodes a 'tag peptide', a short internal open reading frame. During trans-translation Ala-aminoacylated tmRNA acts like a tRNA, entering the A-site of stalled ribosomes, displacing the stalled mRNA. The ribosome then switches to translate the ORF on the tmRNA; the nascent peptide is terminated with the 'tag peptide' encoded by the tmRNA and targeted for degradation. The ribosome is freed to recommence translation, which seems to be the essential function of trans-translation.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/ssra-binding-protein-smpb/1353218