GTP-Binding Nuclear Protein Ran (ran-1) Onchocerca Volvulus Recombinant Protein

PRODUCT OVERVIEW

Product Name	GTP-binding nuclear protein Ran (ran-1), Recombinant Protein
Full Product Name	Recombinant Onchocerca volvulus GTP-binding nuclear protein Ran (ran-1)
Product Gene Name	ran-1 recombinant protein
Sequence	MATGDDIPTF KLVLVGDGGT GKTTFVKRHL TGDPEKKYVA TLGVEVHPLI FHTNRGQIRF NVWDTAGQEK FGGLRDGYYI QGQCAIIMFD VTARVTYKNV PNWHRDLARV CENIPIVLCG NFVDVKDRKV KAKTITFHRK KNLQYYDISA KSNYNFEKPS LWLVRKLLGD PNLEFVAMPA LAPPEVQMDP TMVAQYEQEI AAAANAELPD DDEDL
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	24,233 Da
Sequence Positions	1-215, 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 P38544
Species	Onchocerca volvulus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ran-1 recombinant protein	MBS1237116 is a recombinant protein targeting ran-1. Also known as Recombinant Onchocerca volvulus GTP-binding nuclear protein Ran (ran-1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ran-1 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 ran-1. It may not necessarily be applicable to this product.

NCBI GI #	585781
NCBI Accession #	P38544.1
UniProt Primary Accession #	P38544
NCBI Official Full Name	GTP-binding nuclear protein Ran
UniProt Protein Name	GTP-binding nuclear protein Ran
UniProt Synonym Protein Names	GTPase Ran; Ras-like protein TC4; Ras-related nuclear protein

UniProt Gene Name	ran-1
UniProt Comments for ran-1	GTPase involved in nucleocytoplasmic transport, participating both to the import and the export from the nucleus of proteins and RNAs. Switches between a cytoplasmic GDP- and a nuclear GTP-bound state by nucleotide exchange and GTP hydrolysis. Nuclear import receptors such as importin beta bind their substrates only in the absence of GTP-bound RAN and release them upon direct interaction with GTP-bound RAN, while export receptors behave in the opposite way. Thereby, RAN controls cargo loading and release by transport receptors in the proper compartment and ensures the directionality of the transport. Interaction with RANBP1 induces a conformation change in the complex formed by XPO1 and RAN that triggers the release of the nuclear export signal of cargo proteins. RAN (GTP-bound form) triggers microtubule assembly at mitotic chromosomes and is required for normal mitotic spindle assembly and chromosome segregation. Required for normal progress through mitosis.
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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