Serine/Threonine-Protein Phosphatase 2a Activator 2 (RRD2) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein phosphatase 2A activator 2 (RRD2), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Serine/threonine-protein phosphatase 2A activator 2 (RRD2)
Product Gene Name	RRD2 recombinant protein
Product Synonym Gene Name	RRD2
Sequence	MLPEKRLLTP DDMKLWEESP TRAHFTKFII DLAESVKGHE NSQYKEPISE SINSMMNLLS QIKDITQKHP VIKDADSSRF GKVEFRDFYD EVSRNSRKIL RSEFPSLTDE QLEQLSIYLD ESWGNKRRID YGSGHELNFM CLLYGLYSYG IFNLSNDSTN LVLKVFIEYL KIMRILETKY WLEPAGSHGV WGLDDYHFLP FLFGAFQLTT HKHLKPISIH NNELVEMFAH RYLYFGCIAF INKVKSSASL RWHSPMLDDI SGVKTWSKVA EGMIKMYKAE VLSKLPIMQH FYFSEFLPCP DGVSPPRGHI HDGTDKDDEC NFEGHVHTTW GDCCGIKLPS AIAATEMNKK HHKPIPFD
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	41,452 Da
Sequence Positions	1-358, 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 Q12461
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RRD2 recombinant protein	MBS1355263 is a recombinant protein targeting RRD2. Also known as Recombinant Saccharomyces cerevisiae Serine/threonine-protein phosphatase 2A activator 2 (RRD2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RRD2 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 RRD2. It may not necessarily be applicable to this product.

NCBI GI #	6325105
NCBI GeneID	855951
NCBI Accession #	NP_015173.1

UniProt Primary Accession #	Q12461
UniProt Secondary Accession #	D6W3L7
UniProt Related Accession #	Q12461
GenBank Nucleotide #	NM_001183966.1
NCBI Official Full Name	peptidylprolyl isomerase RRD2
NCBI Official Symbol	RRD2
NCBI Official Synonym Symbols	YPA2
UniProt Protein Name	Serine/threonine-protein phosphatase 2A activator 2
UniProt Synonym Protein Names	Peptidyl-prolyl cis-trans isomerase PTPA-2; PPIase PTPA-2; Rotamase PTPA-2; Phosphotyrosyl phosphatase activator 2
UniProt Gene Name	RRD2
UniProt Synonym Gene Names	NOH1; YPA2; PPIase PTPA-2; Rotamase PTPA-2
NCBI Protein Information	peptidylprolyl isomerase RRD2
UniProt Comments for RRD2	PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Acts as a regulatory subunit for TAP42-associated PP2A-like phosphatases modulating their activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a direct target of the PPIase. Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2Ai) in presence of ATP and Mg2+ by dissociating the inactive form from the complex. Acts also inhibitory at high concentrations. Involved in the regulation of cell cycle progression, mitotic spindle formation and bud morphogenesis.
Research Articles on RRD2	**1.** specific interaction of Rrd1 with the Tap42-Sit4 complex and that of Rrd2 with the Tap42-Phosphoprotein Phosphatase 2Ac complex
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