Centromere Protein R (ITGB3BP) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Centromere protein R (Itgb3bp), Recombinant Protein
Full Product Name	Recombinant Rat Centromere protein R (Itgb3bp)
Product Gene Name	Itgb3bp recombinant protein
Product Synonym Gene Name	Itgb3bp
Sequence	MPVKRSLKLD DQFEENSFGP SKIMRKKSIT AFSPTTGTYQ LSPFSSPRTP KEQEHRDGPS NGTRKWSVLS SPARQDSTVK GSDGFMMLLS KIERSSEKTM EIMKNLSSLQ ALEGNRQLED LLGVSLVPCS LKSEAKKTKE LMTKVMKQKL FEKKNSRIPP KEHHPNSFEF LKAILN
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	19,917 Da
Sequence Positions	1-176, 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 Q5U1Z7
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Itgb3bp recombinant protein	MBS1363422 is a recombinant protein targeting Itgb3bp. Also known as Recombinant Rat Centromere protein R (Itgb3bp). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Itgb3bp 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 Itgb3bp. It may not necessarily be applicable to this product.

NCBI GI #	61557307
NCBI GeneID	362548
NCBI Accession #	NP_001013231.1
UniProt Primary Accession #	Q5U1Z7
UniProt Related Accession #	Q5U1Z7
GenBank Nucleotide #	NM_001013213.1

NCBI Official Full Name	centromere protein R
NCBI Official Synonym Full Names	integrin subunit beta 3 binding protein
NCBI Official Symbol	Itgb3bp
UniProt Protein Name	Centromere protein R
UniProt Synonym Protein Names	Nuclear receptor-interacting factor 3
Protein Family	Centromere protein
UniProt Gene Name	Itgb3bp
UniProt Synonym Gene Names	Cenpr; Nrif3; CENP-R
NCBI Protein Information	centromere protein R
UniProt Comments for Itgb3bp	Transcription coregulator that can have both coactivator and corepressor functions. Involved in the coactivation of nuclear receptors for retinoid X (RXRs) and thyroid hormone (TRs) in a ligand-dependent fashion. In contrast, it does not coactivate nuclear receptors for retinoic acid, vitamin D, progesterone receptor, nor glucocorticoid. Acts as a coactivator for estrogen receptor alpha. Acts as a transcriptional corepressor via its interaction with the NFKB1 NF-kappa-B subunit, possibly by interfering with the transactivation domain of NFKB1. Induces apoptosis in breast cancer cells, but not in other cancer cells, via a caspase-2 mediated pathway that involves mitochondrial membrane permeabilization but does not require other caspases. May also act as an inhibitor of cyclin A-associated kinase. Also acts a component of the CENPA-CAD (nucleosome distal) complex, a complex recruited to centromeres which is involved in assembly of kinetochore proteins, mitotic progression and chromosome segregation. May be involved in incorporation of newly synthesized CENPA into centromeres via its interaction with the CENPA-NAC complex ().
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