Telomeric Repeat-Binding Factor 2-Interacting Protein 1 (TERF2IP) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Telomeric repeat-binding factor 2-interacting protein 1 (Terf2ip), Recombinant Protein
Full Product Name	Recombinant Mouse Telomeric repeat-binding factor 2-interacting protein 1 (Terf2ip)
Product Gene Name	Terf2ip recombinant protein
Product Synonym Gene Name	Terf2ip
Sequence	AEAMDLGKDP NGPTHSSTLF VREDGSAMSF YVRPSSAKRR LSTLILHGGG TVCRVQEPGA VLLAQPGEAL AEASGDFIST QYILDCVDRN EKLDLEAYRL GLTEQASDPK PGASTEGSTE PEPQPLTGRI AYTDAEDVAI LTYVKENARS PSSVTGNALW KAMEKSSLTQ HSWQSLKDRY LKHLRGQEHK YLLGNAPVSP SSQKLKRKAE QDPEAADSGE PQNKRAPDLP EEECVKGEIK ENGEADNKLF EEAAPEFGEA VVDESPDFEI HITMCDGDPP TPEEDSETQP DEEEEEPKVS TQEVGTAIKV IRQLMEKFNL DLSTVTQALL KNSGELEATS SFLESGRRPD GYPIWCRQDD LDLQKDDDDT KNALVKKFGA QNVARRIEFR KK
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	43,353 Da
Sequence Positions	2-393, 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 Q91VL8
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Terf2ip recombinant protein	MBS1328186 is a recombinant protein targeting Terf2ip. Also known as Recombinant Mouse Telomeric repeat-binding factor 2-interacting protein 1 (Terf2ip). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Terf2ip 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 Terf2ip. It may not necessarily be applicable to this product.

NCBI GI #	160948575
NCBI GeneID	57321
NCBI Accession #	NP_065609.2

UniProt Primary Accession #	Q91VL8
UniProt Secondary Accession #	Q543F4; Q8C2Y1; Q9JJE8; Q9JJE9; D3YWE8
UniProt Related Accession #	Q91VL8
GenBank Nucleotide #	NM_020584.2
NCBI Official Full Name	telomeric repeat-binding factor 2-interacting protein 1
NCBI Official Synonym Full Names	telomeric repeat binding factor 2, interacting protein
NCBI Official Symbol	Terf2ip
NCBI Official Synonym Symbols	Rap1
UniProt Protein Name	Telomeric repeat-binding factor 2-interacting protein 1
UniProt Synonym Protein Names	Repressor/activator protein 1 homolog; RAP1 homolog
Protein Family	Telomeric repeat-binding factor 2-interacting protein
UniProt Gene Name	Terf2ip
UniProt Synonym Gene Names	Rap1; TERF2-interacting telomeric protein 1; TRF2-interacting telomeric protein 1; RAP1 homolog
NCBI Protein Information	telomeric repeat-binding factor 2-interacting protein 1
UniProt Comments for Terf2ip	Acts both as a regulator of telomere function and as a transcription regulator. Involved in the regulation of telomere length and protection as a component of the shelterin complex (telosome). In contrast to other components of the shelterin complex, it is dispensible for telomere capping and does not participate in the protection of telomeres against non-homologous end-joining (NHEJ)-mediated repair. Instead, it is required to negatively regulate telomere recombination and is essential for repressing homology-directed repair (HDR), which can affect telomere length. Does not bind DNA directly: recruited to telomeric double-stranded 5'-TTAGGG-3' repeats via its interaction with TERF2. Independently of its function in telomeres, also acts as a transcription regulator: recruited to extratelomeric 5'-TTAGGG-3' sites via its association with TERF2 or other factors, and regulates gene expression. When cytoplasmic, associates with the I-kappa-B-kinase (IKK) complex and acts as a regulator of the NF-kappa-B signaling by promoting IKK-mediated phosphorylation of RELA/p65, leading to activate expression of NF-kappa-B target genes.
Research Articles on Terf2ip	**1.** Rap1 may induce hepatic ischemia reperfusion injury (IRI) through promoting neutrophils inflammatory response. Rap1 may be the potential therapeutic target of attenuating hepatic IRI.
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