RNA Polymerase-Associated Protein LEO1 (LEO1) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA polymerase-associated protein LEO1 (LEO1), Recombinant Protein
Full Product Name	Recombinant Pongo abelii RNA polymerase-associated protein LEO1 (LEO1), partial
Product Gene Name	LEO1 recombinant protein
Product Synonym Gene Name	LEO1
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	75,402 Da
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 Q5R4D6
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LEO1 recombinant protein	MBS1386547 is a recombinant protein targeting LEO1. Also known as Recombinant Pongo abelii RNA polymerase-associated protein LEO1 (LEO1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LEO1 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 LEO1. It may not necessarily be applicable to this product.

NCBI GI #	197097524
NCBI GeneID	100174739
NCBI Accession #	NP_001127657.1
UniProt Primary Accession #	Q5R4D6
UniProt Related Accession #	Q5R4D6
GenBank Nucleotide #	NM_001134185.1
NCBI Official Full Name	RNA polymerase-associated protein LEO1
NCBI Official Symbol	LEO1
UniProt Protein Name	RNA polymerase-associated protein LEO1

Protein Family	RNA polymerase-associated protein
UniProt Gene Name	LEO1
NCBI Protein Information	RNA polymerase-associated protein LEO1
UniProt Comments for LEO1	Component of the PAF1 complex (PAF1C) which has multiple functions during transcription by RNA polymerase II and is implicated in regulation of development and maintenance of embryonic stem cell pluripotency. PAF1C associates with RNA polymerase II through interaction with POLR2A CTD non-phosphorylated and 'Ser-2'- and 'Ser-5'-phosphorylated forms and is involved in transcriptional elongation, acting both indepentently and synergistically with TCEA1 and in cooperation with the DSIF complex and HTATSF1. PAF1C is required for transcription of Hox and Wnt target genes. PAF1C is involved in hematopoiesis and stimulates transcriptional activity of KMT2A/MLL1. PAF1C is involved in histone modifications such as ubiquitination of histone H2B and methylation on histone H3 'Lys-4' (H3K4me3). PAF1C recruits the RNF20/40 E3 ubiquitin-protein ligase complex and the E2 enzyme UBE2A or UBE2B to chromatin which mediate monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1); UB2A/B-mediated H2B ubiquitination is proposed to be coupled to transcription. PAF1C is involved in mRNA 3' end formation probably through association with cleavage and poly(A) factors. Involved in polyadenylation of mRNA precursors. Connects PAF1C to Wnt signaling ().
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