RNA Polymerase II Elongation Factor ELL2 (ELL2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA polymerase II elongation factor ELL2 (ELL2), Recombinant Protein
Full Product Name	Recombinant Human RNA polymerase II elongation factor ELL2 (ELL2)
Product Gene Name	ELL2 recombinant protein
Sequence	MAAGGTGGLR EEQRYGLSCG RLGQDNITVL HVKLTETAIR ALETYQSHKN LIPFRPSIQF QGLHGLVKIP KNDPLNEVHN FNFYLSNVGK DNPQGSFDCI QQTFSSSGAS QLNCLGFIQD KITVCATNDS YQMTRERMTQ AEEESRNRST KVIKPGGPYV GKRVQIRKAP QAVSDTVPER KRSTPMNPAN TIRKTHSSST ISQRPYRDRV IHLLALKAYK KPELLARLQK DGVNQKDKNS LGAILQQVAN LNSKDLSYTL KDYVFKELQR DWPGYSEIDR RSLESVLSRK LNPSQNAAGT SRSESPVCSS RDAVSSPQKR LLDSEFIDPL MNKKARISHL TNRVPPTLNG HLNPTSEKSA AGLPLPPAAA AIPTPPPLPS TYLPISHPPQ IVNSNSNSPS TPEGRGTQDL PVDSFSQNDS IYEDQQDKYT SRTSLETLPP GSVLLKCPKP MEENHSMSHK KSKKKSKKHK EKDQIKKHDI ETIEEKEEDL KREEEIAKLN NSSPNSSGGV KEDCTASMEP SAIELPDYLI KYIAIVSYEQ RQNYKDDFNA EYDEYRALHA RMETVARRFI KLDAQRKRLS PGSKEYQNVH EEVLQEYQKI KQSSPNYHEE KYRCEYLHNK LAHIKRLIGE FDQQQAESWS
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	44,696 Da
Sequence Positions	1-640, 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.
OMIM	601874
3D Structure	ModBase 3D Structure for O00472
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ELL2 recombinant protein	MBS1229314 is a recombinant protein targeting ELL2. Also known as Recombinant Human RNA polymerase II elongation factor ELL2 (ELL2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ELL2 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 ELL2. It may not necessarily be applicable to this product.

NCBI GI #	155722987
NCBI GeneID	22936

NCBI Accession #	NP_036213.2
UniProt Primary Accession #	O00472
UniProt Secondary Accession #	B4DNK7
UniProt Related Accession #	O00472
GenBank Nucleotide #	NM_012081.5
NCBI Official Full Name	RNA polymerase II elongation factor ELL2
NCBI Official Synonym Full Names	elongation factor for RNA polymerase II 2
NCBI Official Symbol	ELL2
NCBI Official Synonym Symbols	MRCCAT1
UniProt Protein Name	RNA polymerase II elongation factor ELL2
Protein Family	RNA polymerase II elongation factor
UniProt Gene Name	ELL2
NCBI Protein Information	RNA polymerase II elongation factor ELL2
UniProt Comments for ELL2	Elongation factor component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. Component of the little elongation complex (LEC), a complex required to regulate small nuclear RNA (snRNA) gene transcription by RNA polymerase II and III (PubMed:22195968). Plays a role in immunoglobulin secretion in plasma cells: directs efficient alternative mRNA processing, influencing both proximal poly(A) site choice and exon skipping, as well as immunoglobulin heavy chain (IgH) alternative processing. Probably acts by regulating histone modifications accompanying transition from membrane-specific to secretory IgH mRNA expression.
Research Articles on ELL2	**1.** Results provide the first evidence that ELL2 is a direct target of miR-299 and increased ELL2 expression and down-regulation of miR-299 are associated with GBM progression and poor prognosis in patients.
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