Transcription Factor CP2-Like Protein 1 (TFCP2L1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor CP2-like protein 1 (TFCP2L1), Recombinant Protein
Full Product Name	Recombinant Human Transcription factor CP2-like protein 1 (TFCP2L1)
Product Gene Name	TFCP2L1 recombinant protein
Product Synonym Gene Name	TFCP2L1
Sequence	MLFWHTQPEH YNQHNSGSYL RDVLALPIFK QEEPQLSPEN EARLPPLQYV LCAATSPAVK LHEETLTYLN QGQSYEIRLL ENRKLGDFQD LNTKYVKSII RVVFHDRRLQ YTEHQQLEGW RWSRPGDRIL DIDIPLSVGI LDPRASPTQL NAVEFLWDPA KRASAFIQVH CISTEFTPRK HGGEKGVPFR VQIDTFKQNE NGEYTEHLHS ASCQIKVFKP KGADRKQKTD REKMEKRTAQ EKEKYQPSYE TTILTECSPW PDVAYQVNSA PSPSYNGSPN SFGLGEGNAS PTHPVEALPV GSDHLLPSAS IQDAQQWLHR NRFSQFCRLF ASFSGADLLK MSRDDLVQIC GPADGIRLFN AIKGRNVRPK MTIYVCQELE QNRVPLQQKR DGSGDSNLSV YHAIFLEELT TLELIEKIAN LYSISPQHIH RVYRQGPTGI HVVVSNEMVQ NFQDESCFVL STIKAESNDG YHIILKCGL
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	54,627 Da
Sequence Positions	1-479, 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	609785
3D Structure	ModBase 3D Structure for Q9NZI6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TFCP2L1 recombinant protein	MBS1304358 is a recombinant protein targeting TFCP2L1. Also known as Recombinant Human Transcription factor CP2-like protein 1 (TFCP2L1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TFCP2L1 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 TFCP2L1. It may not necessarily be applicable to this product.

NCBI GI #	7657299
NCBI GeneID	29842

NCBI Accession #	NP_055368.1
UniProt Primary Accession #	Q9NZI6
UniProt Secondary Accession #	Q4ZG43
UniProt Related Accession #	Q9NZI6
GenBank Nucleotide #	NM_014553.2
NCBI Official Full Name	transcription factor CP2-like protein 1
NCBI Official Synonym Full Names	transcription factor CP2 like 1
NCBI Official Symbol	TFCP2L1
NCBI Official Synonym Symbols	LBP9; CRTR1; LBP-9
UniProt Protein Name	Transcription factor CP2-like protein 1
UniProt Synonym Protein Names	CP2-related transcriptional repressor 1; CRTR-1; Transcription factor LBP-9
Protein Family	Transcription factor CP2-like protein
UniProt Gene Name	TFCP2L1
UniProt Synonym Gene Names	CRTR1; LBP9; CRTR-1
NCBI Protein Information	transcription factor CP2-like protein 1
UniProt Comments for TFCP2L1	Transcription factor that facilitates establishment and maintenance of pluripotency in embryonic stem cells (ESCs) (PubMed:25215486, PubMed:26906118). With KLF2, acts as the major effector of self-renewal that mediates induction of pluripotency downstream of LIF/STAT3 and Wnt/beta-catenin signaling (). Required for normal duct development in the salivary gland and kidney (). Coordinates the development of the kidney collecting ducts intercalated (IC) and principal (PC) cells, which regulate acid-base and salt-water homeostasis, respectively (). Regulates the expression of IC genes including subunits B1 and D2 of the V-ATPase complex, OXGR1, CA12, SLC4A1, AQP6 and IC-specific transcription factor FOXI1 (). Regulates also the expression of JAG1 and subsequent notch signaling in the collecting duct (). JAG1 initiates notch signaling in PCs but inhibits notch signaling in ICs (). Acts as a transcriptional suppressor that may suppress UBP1-mediated transcriptional activation (). Modulates the placental expression of CYP11A1 (PubMed:10644752).
Research Articles on TFCP2L1	**1.** Study show that CRTR-1 is generally an activator of transcription and that it modulates the activity of other family members, CP2, NF2d9 and altNF2d9, in a cell specific manner.
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