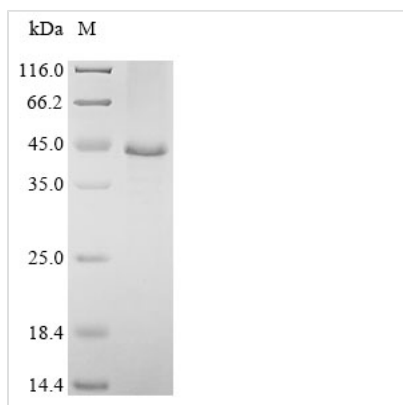




Recombinant Mouse Kielin/chordin-like protein (Kcp), partial

Product Code	CSB-EP012103MO
Abbreviation	Recombinant Mouse Kcp protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q3U492
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	QALSNCTEDLVGSELVPPDPCYTCQCQDLTWLCTHRACPELSCPLWERHTTP GSCCPVCKDPTQSCMHQGRWVASGEQWAVDACTSCSCVAGTVHCQTQRC RKLACSRDEVPALSPGSCCLRCLPRPASCMAFGDPHYRTFDGRLHFGGSCS YVLAKDCHGEDFSVHVTNDDRGRRGVAWTQEVAVLLGTVAVRLLQGRTVMV DQHTVTLPFLREPLLYIELRGHTVILHAQPGLQVLWDGQSQVEVRVPSSYRGQ TCGLCGNFNGFAQDDLQGPDGRLLPTEASFGNSWKVPKGLGPGRPCSAGRE VDPCRAAGYRARREANARCGILKTSPFSHCHAV
Research Area	Cell Biology
Source	E.coli
Target Names	Kcp
Protein Names	Recommended name: Kielin/chordin-like protein Alternative name(s): Cysteine-rich BMP regulator 2 Cysteine-rich motor neuron 2 protein Short name= CRIM-2 Kielin/chordin-like protein 1 Short name= KCP-1
Expression Region	1085-1425aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	44.7 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 1085-1425 form the expressed segment for recombinant Mouse Kcp. The theoretical molecular weight of the Kcp protein is 44.7 kDa. Expression of this Kcp protein is conducted in e.coli. The Kcp gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant Kcp protein during the following stages.

The mouse kielin/chordin-like protein (Kcp) is renowned for its regulatory effects on bone morphogenetic proteins (BMPs). Expressed across all stages of embryonic development, Kcp is particularly prominent in renal tubules within the kidney cortex, with no presence in the nephrogenic zone. Kcp suppresses the TGF- β 1 signaling pathway. Kcp exhibits dual effects on different cytokines, enhancing BMPs while suppressing others, including TGF- β or activin. Studies have shown that Kcp can protect against unilateral ureteral obstruction (UUO)-induced renal fibrosis by regulating BMP7 expression. Kcp can also mitigate nonalcoholic fatty liver disease via modulating BMP4 and TGF- β 1.

Shelf Life

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