Cartilage Intermediate Layer Protein 1 (CILP) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cartilage intermediate layer protein 1 (Cilp), Recombinant Protein
Full Product Name	Recombinant Mouse Cartilage intermediate layer protein 1 (Cilp), partial
Product Gene Name	Cilp recombinant protein
Product Synonym Gene Name	Cilp
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	132,334 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 Q66K08
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cilp recombinant protein	Major alterations in the composition of the cartilage extracellular matrix occur in joint disease, such as osteoarthrosis. This gene encodes the cartilage intermediate layer protein (CILP), which increases in early osteoarthrosis cartilage. The encoded protein was thought to encode a protein precursor for 2 different proteins, namely CILP and a homolog of NTPPHase, however later studies identified no nucleotide pyrophosphatase phosphodiesterase (NPP) activity. One isoform of the protein, CILP-1, functions as an IGF-1 antagonist.
Other Notes	Small volumes of Cilp 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.
Searchable Terms for Cilp purchase	MBS1282816 is a recombinant protein targeting Cilp. Also known as Recombinant Mouse Cartilage intermediate layer protein 1 (Cilp), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cilp. It may not necessarily be applicable to this product.

NCBI GI #	27734196
NCBI GeneID	214425
NCBI Accession #	NP_775561.1
UniProt Primary Accession #	Q66K08
UniProt Secondary Accession #	Q7TSS0; Q7TSS1; Q8BV01
UniProt Related Accession #	Q66K08

GenBank Nucleotide #	NM_173385.2
NCBI Official Full Name	cartilage intermediate layer protein 1
NCBI Official Synonym Full Names	cartilage intermediate layer protein, nucleotide pyrophosphohydrolase
NCBI Official Symbol	Cilp
NCBI Official Synonym Symbols	9830114D16; C130036G17Rik
UniProt Protein Name	Cartilage intermediate layer protein 1
Protein Family	Cartilage intermediate layer protein
UniProt Gene Name	Cilp
UniProt Synonym Gene Names	CILP-1
NCBI Protein Information	cartilage intermediate layer protein 1
UniProt Comments for Cilp	Probably plays a role in cartilage scaffolding. May act by antagonizing TGF-beta1 (TGFB1) and IGF1 functions. Has the ability to suppress IGF1-induced proliferation and sulfated proteoglycan synthesis, and inhibits ligand-induced IGF1R autophosphorylation. May inhibit TGFB1-mediated induction of cartilage matrix genes via its interaction with TGFB1. Overexpression may lead to impair chondrocyte growth and matrix repair and indirectly promote inorganic pyrophosphate (PPi) supersaturation in aging and osteoarthritis cartilage ().
Research Articles on Cilp	**1.** Overexpression of CILP in the nucleus pulposus cells promotes disc degeneration, indicating that CILP plays a direct role in the pathogenesis of lumbar disc disease.
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