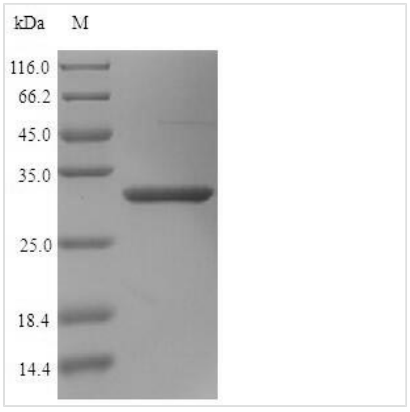
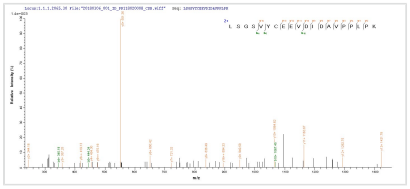
Recombinant Human Mimecan (OGN)

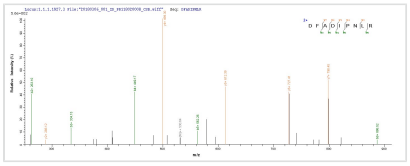
Product Code	CSB-YP016314HU
Relevance	Induces bone formation in conjunction with TGF-beta-1 or TGF-beta-2.
Abbreviation	Recombinant Human OGN protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, 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.	P20774
Alias	OsteoglycinOsteoinductive factor ;OIF
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	PPTQQDSRIIYDYGTDNFEESIFSQDYEDKYLDGKNIKEKETVIIPNEKSLQLQK DEAITPLPPKKENDEMPTCLLCVCLSGSVYCEEVDIDAVPPLPKESAYLYARFN KIKKLTAKDFADIPNLRRLDFTGNLIEDIEDGTFSKLSLLEELSLAENQLLKLPVLP PKLTLFNAKYNKIKSRGIKANAFKKLNNLTFLYLDHNALESVPLNLPESLRVIHLQ FNNIASITDDTFCKANDTSYIRDRIEEIRLEGNPIVLGKHPNSFICLKRLPIGSYF
Research Area	Signal Transduction
Source	Yeast
Target Names	OGN
Protein Names	Recommended name: Mimecan Alternative name(s): Osteoglycin Osteoinductive factor Short name= OIF
Expression Region	21-298aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	33.7kDa
Protein Length	Full Length of Mature Protein
Image	



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



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP016314HU could indicate that this peptide derived from Yeast-expressed Homo sapiens (Human) OGN.



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Description

To achieve the expression of the recombinant Human OGN protein in Yeast cells, a DNA fragment encoding the Human OGN protein (21-298aa) is inserted into a plasmid vector, which is then transferred to Yeast cells. After screening positive cells, they are cultured and induced to generate the OGN protein. A N-terminal 6xHis tag is attached to the protein. Cells are lysed to collect the recombinant Human OGN protein, which is purified through affinity purification and then identified using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. The purity of the obtained recombinant Human OGN protein is over 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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