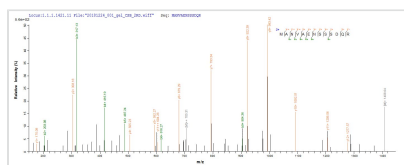




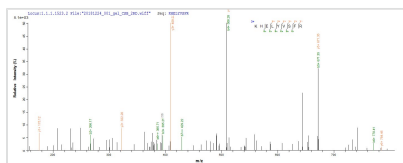
Recombinant Human Bone morphogenetic protein 7 (BMP7)

Product Code	CSB-EP002744HU
Relevance	Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis.
Abbreviation	Recombinant Human BMP7 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.	P18075
Alias	Osteogenic protein 1 ;OP-1INN: Eptoterminal alfa
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	STGSKQRSQNRSKTPKNQEALRMANVAENSSSDQRQACKKHELYVSFRDLG WQDWIIAPEGYAAYYCEGECAPPLNSYMNATNHAIVQTLVHFINPETVPKPCC APTQLNAISVLVYFDDSSNVILKKYRNMVVRACGCH
Research Area	Developmental Biology
Source	E.coli
Target Names	BMP7
Expression Region	293-431aa
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	19.7kDa
Protein Length	Full Length of Mature Protein

Image



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP002744HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) BMP7.



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Description

The gene encoding the Human BMP7 protein (293-431aa) is incorporated into a plasmid vector to generate recombinant plasmid, which is then introduced into e.coli cells. The e.coli cells containing the recombinant plasmid are selected and cultured under conditions that stimulate the expression of the gene of interest. A N-terminal 6xHis tag is attached to the protein. After expression, affinity purification is employed to isolate and purify the recombinant Human BMP7 protein from the cell lysate. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant Human BMP7 protein, revealing a purity level exceeding 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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