



Recombinant Rat Cartilage oligomeric matrix protein (Comp)

Product Code	CSB-EP005778RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P35444
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	<p>Q GQIPLGGDLA PQMLRELQET NAALQDVREL LRHRVKEITF LKNTVMECDA CGMQPARTPG LSVRPVALCA PGSCFPGVVC TETATGARCG PCPPGYTGNG SHCTDVNECN AHPCFPRVRC INTSPGFHCE ACPPGFSGPT HEGVGLTFAK TNKQVCTDIN ECETGQHNCV PNSVCVNTRG SFQCGPCQPG FVG DQRSGCQ RRGQHFCPDG SPSPCHEKAD CILERDGSRS CVC AVGWAGN GLLCGRDIDL DGFPDEKLRC SERQCRKDNC VTV PNSGQED VDRDRIGDAC DPDADGDGVP NEQDNCPLVR NPDQRNSDKD KWGDACDNCR SQKNDDQKDT DRDGQGDACD DDIDGDRIRN VADNCPVFN FDQSDSDGDG VGDACDNCPQ KDNP DQRDVD HDFVGDACDS DQDQDGDGHQ DSRDNCPTVP NSAQQSDHD GKG DACDDDD DNDGVPDSRD NCRLVPNPGQ EDNDRDGVGD ACQGDFDADK VIDKIDVCPE NAEVTLTDFR AFQTVVLDPE GDAQIDPNWV VLNQGM EIVQ TMNSDPGLAV GYTAFNGVDF EGT FHVNTAT DDDYAGFIFG YQDSSSFYVV MWKQMEQTYW QANP FRAVAE PGIQLKAVKS STGPGEQLRN ALWHTGDTAS QVRL LWKDPR NVGWKDKTSY RWFLQHRPQV GYIRVRFYEG PELVADSNVV LDTAMRGGRL GVFCFSQENI IWANLRYRCN DTIPEDYERH RLRA</p>
Source	E.coli
Target Names	Comp
Protein Names	Recommended name: Cartilage oligomeric matrix protein Short name= COMP
Expression Region	20-755
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein is a noncollagenous extracellular matrix (ECM) protein. It consists of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondin-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfides. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Mutations can cause the osteochondrodysplasias pseudochoondroplasia (PSACH) and multiple



epiphyseal dysplasia (MED).

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

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.