Recombinant OMD protein (His tag)

Catalog Number	548086
Synonyms	Keratan sulfate proteoglycan osteomodulin; KSPG osteomodulin; Osteoadherin; OSAD
Species	Human
Expression System	E. coli
Accession	Q99983
Molecular Weight	Predictes a molecular mass of 38.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	61-377
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 61-377 aa (Q99983) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This product is a recombinant fragment of human Osteomodulin (OMD), spanning residues 61-377, designed for high stability and solubility. It is ideal for structural studies, biochemical assays, and research on biomineralization and osteoblast adhesion processes. Osteomodulin, also known as Keratan sulfate proteoglycan osteomodulin or Osteoadherin, is a secreted protein localized to the extracellular matrix and implicated in biomineralization. It functions by binding osteoblasts via the αVβ3-integrin, playing a role in cell-matrix interactions critical for bone formation and remodeling. The full-length protein is involved in regulating mineralization and cellular adhesion in skeletal tissues.