

Recombinant Mouse Osteomodulin/OMD Protein

Catalog No.: RP03225 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	27047	O35103

Tags

C-His

Synonyms

OSAD; OMD; SLRR2C

Product Information

Source	Purification
HEK293 cells	> 96% by SDS-PAGE.

Calculated MW	Observed MW
48.8 kDa	60-70 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Osteomodulin (OMD) is a member of the small leucine-rich repeat proteoglycan family, which is involved in the organization of the extracellular matrix. OMD is located in bone tissue and is reportedly important for bone mineralization. Mechanistically, OMD could bind to BMP2 via its terminal leucine-rich repeats and formed complexes with BMP2 and its membrane receptors, thus promoting BMP/SMAD signal transduction. In addition, OMD was a putative target gene of SMAD4, which plays a pivotal role in this pathway.

Basic Information

Description

Recombinant Mouse Osteomodulin/OMD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln21-Ile423) of Mouse Osteomodulin/OMD (Accession #NP_036180.1) fused with His tag at the C-terminus.

Bio-Activity

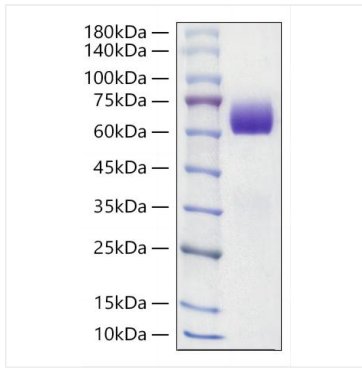
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Osteomodulin/OMD Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.