Recombinant Human Osteocrin

Catalog # CR03

Derived from E.coli

**DESCRIPTION**

Recombinant Human Osteocrin is produced by our E.coli expression system and the target gene encoding Val28-Gly133 is expressed with a 6His tag at the N-terminus.

Accession #: P61366
Known as: Osteocrin; Musclin; OSTN

**FORMULATION**

Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.

**SHIPPING**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

**STORAGE**

Lyophilized protein should be stored at <-20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at <-20°C for 3 months.

**RECONSTITUTION**

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**QUALITY CONTROL**

Purity: Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).

**AMINO ACID SEQUENCE**

MGSSHHHHHHHSGLVPRGSHMVDVTTEAFDSGVIDVQSTPTVREEKATDLTAKLLLDELDVSENDVIETKKKRSFGSFGSPLDRLSAGSVDHGKQRKVVDHPKRRFIGINPDRIGRNRLNSRG

Osteocrin is a secreted protein which is primarily expressed in bone and muscle. It is synthesized as a proprotein that undergoes proteolytic processing to generate a mature 50 amino acid C-terminal active peptide. Human Osteocrin proprotein shares 77% and 78% amino acid sequence identity with the rat and mouse protein, respectively. It appears to modulate osteoblastic differentiation. It could also function as an autocrine and paracrine factor linked to glucose metabolism in skeletal muscle.

**SDS-PAGE**

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