Recombinant Human OSTN Protein, 28-133aa, C-6×His tagged

Cat. No. OSTN-40H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Osteocrin, fused to His-tag at C-terminus, was expressed in HEK 293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	28-133aa
Description	Osteocrin, also known as Musclin, shows a well conserved homology with members of the natriuretic peptide (NP) family. It is a secreted protein that is expressed in muscle and bone. Based on similarities with NPs, Osteocrin could interact with the NP clearance receptors, importantly increasing CNP which has been shown to stimulate endochondral ossification and elongate bones. It is represents a novel, unique vitamin D-regulated bone-specific.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human NPRC. The ED50 range ≤ 20 ng/mL.
Molecular Mass	12.5 kDa (112aa)
AA Sequence	VDVTTTEAFDSGVIDVQSTPTVREEKSATDLTAKLLLLDELVSLENDVIETKKKRSFS GFGSPLDRLSAGSVDHKGKQRKVVDHPKRRFGIPMDRIGRNRLSNSRG

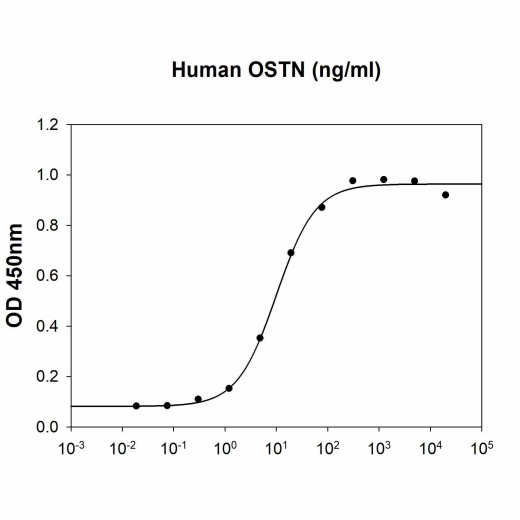
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Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
References	1. Thomas, G., et al, (2003) J. Biol. Chem. 278:50563–50571. 2. Nishizawa H., et al, (2004) J Biol Chem. 279:19391-19395. 3. Pierre Moffatt., et al, (2007) J Biol Chem. 282:36454-36462.

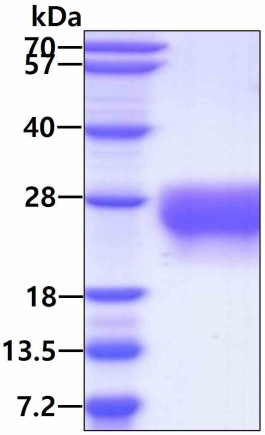
GENE INFORMATION

Gene Name	OSTN osteocrin [Homo sapiens (human)]
Official Symbol	OSTN
Synonyms	OSTN; osteocrin; MUSCLIN;
Gene ID	344901
mRNA Refseq	NM_198184
Protein Refseq	NP_937827

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MIM	610280
UniProt ID	P61366
Biological Activity	 Human NPRC is coated at 2 μg/mL (100 μL/well) can bind Human OSTN. The ED50 range ≤ 20 ng/mL.

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SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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