

Recombinant Human Osteocrin protein

Catalog Number: ATGP4150

PRODUCT INFORMATION

Expression system

HEK293

Domain

28-133aa

UniProt No.

P61366

NCBI Accession No.

NP_937827.1

Alternative Names

Osteocrin, MUSCLIN, OSTN

PRODUCT SPECIFICATION

Molecular Weight

12.5kDa (112aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by its binding ability in a functional ELISA with Human NPRC. The ED50 range \leq 20 ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Osteocrin, also known as Musclin, shows a well conserved homology with members of the natriuretic peptide

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(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 represents a novel, unique vitamin D-regulated bone-specific. Recombinant human Osteocrin, fused to His-tag at C-terminus, was expressed in HEK 293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

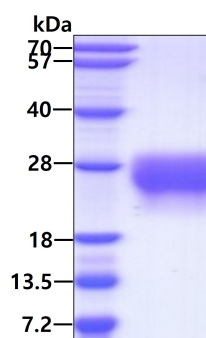
VDVTTTEAFD SGVIDVQSTP TVREEKSATD LTAKLLLLDE LVSLENDVIE TKKKRSFSGF GSPLDRLSAG SVDHKGKQRK
VVDHPKRRFG IPMDRIGRNR LSNSRG<HHHH HH>

General References

Thomas, G., et al, (2003) J. Biol. Chem. 278:50563-50571.
Nishizawa H., et al, (2004) J Biol Chem. 279:19391-19395.
Pierre Moffatt., et al, (2007) J Biol Chem. 282:36454-36462.

DATA

SDS-PAGE



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

Biological Activity

Human NPRC is coated at 2 ug/ml (100 ul/well) can bind Human OSTN. The ED50 range ≤ 20 ng/ml.

