Datasheet for ABIN7596172

# Osteocrin Protein (OSTN) (AA 28-133) (His tag)

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## Overview

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| Quantity: | 500 µg |
| Target: | Osteocrin (OSTN) |
| Protein Characteristics: | AA 28-133 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This Osteocrin protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Activity Assay (AcA) |

## Product Details

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| Sequence: | VDVTTTEAFD SGVIDVQSTP TVREEKSATD LTAKLLLLDE LVSLENDVIE TKKKRSFSGF GSPLDRLSAG SVDHKGKQRK VVDHPKRRFG IPMDRIGRNR LSNSRG |
| Purity: | > 95% by SDS-PAGE |
| Endotoxin Level: | < 1 EU per 1ug of protein (determined by LAL method) |
| Biological Activity Comment: | Measured by its binding ability in a functional ELISA with Human NPRC. The ED50 range ≤ 20 ng/ml. |

## Target Details

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| Target: | Osteocrin (OSTN) |

## Target Details

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| Alternative Name: | Osteocrin (OSTN Products) |
| Background: | 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. Recombinant human Osteocrin, fused to His-tag at C-terminus, was expressed in HEK 293 cell and purified by using conventional chromatography techniques. |
| Molecular Weight: | 12.5kDa (112aa) |
| NCBI Accession: | NP_937827 |
| Pathways: | Hormone Activity |

## Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 0.5 mg/mL |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles. |