

Osteocrin Protein, Human (His)

Cat. No.:	HY-P71181
Synonyms:	Osteocrin; Musclin; OSTN
Species:	Human
Source:	E. coli
Accession:	P61366 (V28-G133)
Gene ID:	344901
Molecular Weight:	Approximately 12.0 kDa

PROPERTIES

AA Sequence	V D V T T T E A F D S G V I D V Q S T P T V R E E K S A T D L T A K L L L L D E L V S L E N D V I E T K K K R S F S G F G S P L D R L S A G S V D H K G K Q R K V V D H P K R R F G I P M D R I G R N R L S N S R G
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Osteocrin protein serves as a crucial regulator of dendritic growth in the developing cerebral cortex, responding to sensory experience. It is induced in the brain upon membrane depolarization and works to inhibit dendritic branching in neurons of the developing cortex. This protein likely achieves its effects by binding to the natriuretic peptide receptor NPR3/NPR-C, thereby preventing the interaction between NPR3/NPR-C and natriuretic peptides, ultimately resulting in increased cproduction. Additionally, Osteocrin interacts with NPR3, further modulating its activity in dendritic growth regulation.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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