

Recombinant Human OGN, His-tagged

Cat. No. OGN-914H Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mature form of human Osteoglycin (Ala20 - Phe298) with 6 His tag on the N-Terminus was expressed in E. Coli. This protein was purified by Ni-NTA column.
Species	Human
Source	E.coli
ProteinLength	20-298 a.a.
Description	This gene encodes a protein which induces ectopic bone formation in conjunction with transforming growth factor beta. This protein is a small proteoglycan which contains tandem leucine-rich repeats (LRR). Alternatively spliced transcript variants that encode the same protein have been found for this gene.
Form	Lyophilized 100 g of human Osteoglycin in 100 ul of PBS. Carry free.
Molecular Mass	19 KD
AA Sequence	<p>APPTQQDSRII YDYGTDNFEE SIFSQDYEDK YLDGKNIKEK ETVIIPNEKS LQLQKDEAIT PLPPKKNENDE MPTCLLCVCL SGSVYCEEVD IDAVPPLPKE SAYLYARFNK IKKLTAKDFA DIPNLRRLDF TGNLIEDIED GTFSKLSLLE ELSLAENQLL KLPVLPKLT LFNAKYNKIK SRGIKANAFK KLNNLTFLYL DHNALESVPL NLPESLRVIH LQFNNIASIT DDTFCKANDT SYIRDRIEEI RLEGNPIVLG KHPNSFICKL RLPIGSYF</p>

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Purity	>95% in SDS-PAGE gel
Applications	ELISA
Storage	Store lyophilized protein at -20 °C or -70 °C. Lyophilized protein is stable for up to 6 months from date of receipt at -20 °C to -70 °C. Upon reconstitution, this protein can be stored at -20 °C for a few weeks or at -70 °C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles.
Reconstitution	Add 500 ul deionized water to the vial to prepare a working stock solution at 200 ug/mL. Allow to set at least 30 minutes at 4 °C, mix well.
GENE INFORMATION	
Gene Name	OGN osteoglycin [Homo sapiens (human)]
Official Symbol	OGN
Synonyms	OGN; OG; OIF; SLRR3A; osteoglycin; mimecan; mimecan proteoglycan; osteoinductive factor; corneal keratan sulfate proteoglycan
Gene ID	4969
mRNA Refseq	NM_014057
Protein Refseq	NP_054776
MIM	602383
UniProt ID	P20774

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**Chromosome
Location**

9q22

Pathway

Glycosaminoglycan metabolism; Keratan sulfate biosynthesis; MPS I - Hurler syndrome

Function

growth factor activity; protein binding

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