

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	APPTQQDSRII YDYGTDNFEE SIFSQDYEDK YLDGKNIKEK ETVIIPNEKS LQLQKDEAIT PLPPKKENDE MPTCLLCVCL SGSVYCEEVD IDAVPPLPKE SAYLYARFNK IKKLTAKDFA DIPNLRRLDF TGNLIEDIED GTFSKLSLLE ELSLAENQLL KLPVLPPKLT LFNAKYNKIK SRGIKANAFK KLNNLTFLYL DHNALESVPL NLPESLRVIH LQFNNIASIT DDTFCKANDT SYIRDRIEEI RLEGNPIVLG KHPNSFICKL RLPIGSYF

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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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