

Recombinant Human Oncomodulin

Cat. No. OCM-428H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full length Oncomodulin (Parvalbumin-beta, OM), cloned from human cDNA, is expressed in <i>E.coli</i> . The protein consists of the residues 1-108, swissprot accession P32930. MW = 12.1 kDa.
Species	Human
Source	E.coli
ProteinLength	1-108 a.a.
Description	Oncomodulin is a calcium-binding protein and a macrophage-derived growth factor, can promote axon regeneration in retinal ganglion cells, which make it outstanding as most mature CNS pathways, such as oncomodulin glaucoma causes optic nerve damage, do not regenerate after injury. Through unknown mechanisms, however, macrophage activation in the eye stimulates retinal ganglion cells (RGCs) to regenerate long axons beyond the site of optic nerve injury. The oncomodulin protein is identified in some studies as a potent macrophage-derived growth factor for RGCs and other neurons. Oncomodulin antibody, a synthetic peptide corresponding to residues in human Oncomodulin was used as an immunogen.
Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight of (<20 kDa).
Supplied As	0.5mg at 0.5mg/ml in 50mM Tris-HCl, pH 7.5, 100mM NaCl. The concentration is calculated from the absorbance at 280nm (e280 = 1280 M ⁻¹ cm ⁻¹).

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Characteristics	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 1mM.
Storage	-20° C. The protein is stable at 4 °C for at least 2 weeks and at 25 °C for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -20° C. Avoid repeated freeze/defrost cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	OCM oncomodulin [Homo sapiens]
Synonyms	OCM; oncomodulin; OM; OCM1; ONCM; MGC97453; MGC97465; MGC97477; MGC142264; MGC142266; hCG18255; oncomodulin 1; Parvalbumin beta; OTTHUMP00000208113; OCMN
Gene ID	654231
mRNA Refseq	NM_001097622
Protein Refseq	NP_001091091
MIM	164795
UniProt ID	P32930
Chromosome Location	7p22
Function	calcium ion binding

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