

## 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 *E.coli*. 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 ( $e_{280} = 1280 \text{ M}^{-1} \text{ cm}^{-1}$ ).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Characteristics</b>	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 1mM.
<b>Storage</b>	-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.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">OCM oncomodulin [ Homo sapiens ]</a>
<b>Synonyms</b>	OCM; oncomodulin; OM; OCM1; ONCM; MGC97453; MGC97465; MGC97477; MGC142264; MGC142266; hCG18255; oncomodulin 1; Parvalbumin beta; OTTHUMP00000208113; OCMN
<b>Gene ID</b>	<a href="#">654231</a>
<b>mRNA Refseq</b>	<a href="#">NM_001097622</a>
<b>Protein Refseq</b>	<a href="#">NP_001091091</a>
<b>MIM</b>	<a href="#">164795</a>
<b>UniProt ID</b>	<a href="#">P32930</a>
<b>Chromosome Location</b>	7p22
<b>Function</b>	calcium ion binding

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