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Datasheet for ABIN7318847

Oncomodulin Protein (OCM) (His tag)

Overview

Quantity:	50 µg
Target:	Oncomodulin (OCM)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Oncomodulin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Oncomodulin-1/OCM Protein (His Tag)
Sequence:	Met 1-Ser109
Characteristics:	Recombinant Human Oncomodulin-1 is produced by our E.coli expression system and the target gene encoding Met1-Ser109 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Oncomodulin (OCM)
Alternative Name:	Oncomodulin-1/OCM (OCM Products)
Background:	Background: Oncomodulin-1 (OM) is a small, calcium-binding protein and a macrophage-derived growth factor, which can promote axon regeneration in retinal ganglion cells. Oncomodulin-1 is constitutively secreted by activated macrophages in the vitreous and retina in

Target Details

response to inflammatory conditions that promote optic nerve regeneration. Oncomodulin-1 binds RGCs with high affinity in vitro, but only when cAMP is pharmacologically elevated or if the membrane is permeabilized allowing Oncomodulin-1 access to the cytosolic compartment. Oncomodulin-1 is a member of the superfamily of calmodulin proteins and is a high-affinity calcium ion-binding protein and contains 2 EF-hand domains. OM is found in early embryonic cells in the placenta and also in tumors. It has some calmodulin-like activity with respect to enzyme activation and growth regulation.

Synonym: Oncomodulin-1, OM, Parvalbumin Beta, OCM, OCM1, OCMN

Molecular Weight: 14.3 kDa

UniProt: [P0CE72](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris, 100 mM NaCl, pH 7.5.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.