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Datasheet for ABIN7317936

OMG Protein (AA 1-420) (His tag)

Overview

Quantity:	50 µg
Target:	OMG
Protein Characteristics:	AA 1-420
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This OMG protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human OMGP/OMG Protein (aa 1-420, His Tag)(Active)
Sequence:	Met 1-Asn 420
Characteristics:	A DNA sequence encoding the mature form of human OMGP (P23515-1) (Met 1-Asn 420) without the pro peptide was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of C6 Rat brain glial cells. Immobilized OMG (0.8 µg/ml, 100 µl/well) will mediate >20% C6 cell adhesion.

Target Details

Target:	OMG
Alternative Name:	OMGP/OMG (OMG Products)
Background:	<p>Background: Oligodendrocyte-myelin glycoprotein; also known as OMG and OMGP; is a cell membrane protein which contains eight LRR (leucine-rich) repeats. OMG / OMGP is a glycosylphosphatidylinositol-anchored protein expressed by neurons and oligodendrocytes in the central nervous system (CNS). OMG / OMGP is a cell adhesion molecule contributing to the interactive process required for myelination in the central nervous system. OMG / OMGP play roles in both the developing and adult central nervous system. OMG / OMGP participates in growth cone collapse and inhibition of neurite outgrowth through its interaction with NgR; the receptor for Nogo. This function requires its leucine-rich repeat domain; a highly conserved region in OMgp during mammal evolution. OMG / OMGP leucine-rich repeat domain is also implicated in the inhibition of cell proliferation. OMG / OMGP may also be involved in the formation and maintenance of myelin sheaths. Cell proliferation; neuronal sprouting and myelination are crucial processes involved in brain development and regeneration after injury.</p> <p>Synonym: OMGP</p>
Molecular Weight:	46 kDa
Pathways:	Neurotrophin Signaling Pathway , Regulation of Cell Size

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>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.</p>