

# Recombinant human OMgp protein

Catalog Number: ATGP3414

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

25-417aa

### UniProt No.

P23515

### NCBI Accession No.

NP\_002535.3

### Alternative Names

Oligodendrocyte-myelin glycoprotein, OMG, OMGP, Oligodendrocyte-myelin glycoprotein, Omg, OMGP\_HUMAN

## PRODUCT SPECIFICATION

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### Molecular Weight

45.4 kDa (401aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

OMG, also known as oligodendrocyte-myelin glycoprotein, is a cell membrane protein which contains eight leucine-rich repeats. This protein is expressed on the surface of oligodendrocytes and on large projection neurons, including Purkinje cells of the cerebellum, pyramidal cells of the hippocampus, motoneurons of the brainstem and anterior horn cells of the spinal cord. The neurite outgrowth inhibitory activities of all three myelin-

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derived proteins are mediated by binding to a common receptor complex consisting of the Nogo receptor and the p75 neurotrophin receptor. Recombinant human OMgp, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

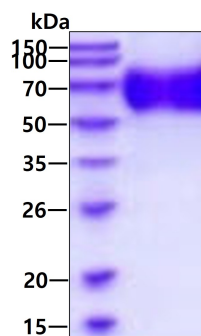
ICPLQICTE RHRHVDCSGR NLSTLPSGLQ ENIIHLNLSY NHFTDLHNQL TQYTNLRTL D ISNNRLES LP AHLPRSLWNM  
SAANNNIKLL DKSDTAYQWN LKYL DVSKNM LEKVVLKNT LRSLEVLNLS SNKLWTVPTN MPSKLHIVDL SNNSLTQILP  
GTLINLTNLT HLYLHNNKFT FIPDQSFQQL FQLQEITLYN NRWSCDHKQN ITYLLKWMME TKAHVIGTPC STQISSLKEH  
NMYPTPSGFT SSLFTVSGMQ TVDTINSLSV VTQPKVTKIP KQYRTKETT F GATLSKDTTF TSTDKAFVPY PEDTSTETIN  
SHEAAAATLT IHLQDGMVTN TSLTSSTKSS PTPMTLSITS GMPNNFSEMP QQSTTLNLWR EETTTNVKTP LPS<VEHHHHH  
H>

## General References

Kottis V., et al. (2002) J Neurochem. 82:1566-1569.  
Habib AA., et al. (1998) J Neurochem. 70:1704-1711.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.