

Recombinant human OMgp protein

Catalog Number: ATGP3414

PRODUCT INFORMATION

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

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

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 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

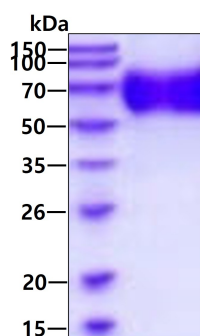
ICPLQICTE RHRHVDCSGR NLSTLPSGLQ ENIIHLNLSY NHFTDLHNQL TQYTNLRTL D ISNNRLES LP AHLPRSLWNM
SAANNNIKLL DKSDTAYQWN LKYLDVSKNM LEKVVLKNT LRSLEVLNLS SNKLWTVPTN MPSKLHIVDL SNNSLTQILP
GTLINLTNLT HLYLHNNKFT FIPDQSFDQL FQLQEITLYN NRWCDHKQN ITYLLKWMME TKAHVIGTPC STQISSLKEH
NMYPTPSGFT SSLFTVSGMQ TVDTINSLSV VTQPKVTKIP KQYRTKETTF 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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.