

Product information

OMG, 25-418aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3414

Full name: Oligodendrocyte-myelin glycoprotein

NCBI Accession No.: NP_002535

Synonyms: OMG, OMGP

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

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 45.4kDa (401aa)

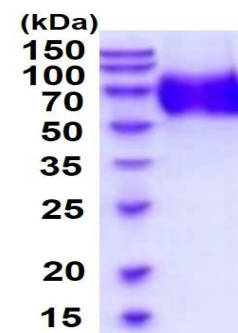
50-100kDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Ile25

Purity: > 95% by SDS – PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

Sequences of amino acids:

ICPLQCICTE RHRHVDCSGR NLSTLPSGLQ ENI IHLNLSY NHFTDLHNQL TQYTNLRTL D ISNNRLES LP AHLPRSLWNM SAANNNIKLL
 DKSDTAYQWN LKYLDVSKNM LEKVVL IKNT LRSLEVLNLS SNKLWTVPTN MPSKLHIVDL SNNSLTQILP GTL INLTNLT HLYLHNNKFT
 FIPDQSFQDL FQLQEITLYN NRWCDHKQN ITYLLKWMME TKAHVIGTPC STQISSLKEH NMYPTPSGFT SSLFTVSGMQ TVDTINLSLV
 VTQPKVTKIP KQYRTKETTF GATLSKDTTF TSTOKAFVPY PEDTSTETIN SHEAAAATLT IHLQDGMVTN TSLTSSTKSS PTPM TLSITS
 GMPNNFSEMP QQSTTLNLWR EETTTNVKTP LPSVEHHHHH H

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

General references:

Kottis V., *et al.* (2002) *J Neurochem.* 82:1566-1569.

Habib AA., *et al.* (1998) *J Neurochem.* 70:1704-1711.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

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Manufactured for:

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