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**Product Data Sheet**


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Product Name: OMG Human  
 Cat. No.: GP24095  
 Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Sf9, Baculovirus cells. |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Oligodendrocyte-myelin glycoprotein; OMG; OMGP.   |                    |                         |
| Amino Acid Sequence | ICPLQICICTE RHRHVDCSGR NLSTLPSGLQ ENIIHLNLSY NHFTDLHNQL<br>TQYTNLRTL D ISNNRLES LP AHLPRSLWNM SAANNNIKLL DKSDTAYQWN<br>LKYLDVSKNM LEKVLIKNT LRSLEVLNLS SNKLWTVPTN MPSKLHIVDL<br>SNNSLTQILP GTLINLTNLT HLYLHNNKFT FIPDQSFQDL FQLQEITLYN<br>NRWSCDHKQN ITYLLKWMME TKAHVIGTPC STQISSLKEH NMYPTPSGFT<br>SSLFTVSGMQ TVDTINLSLV VTQPKVTKIP KQYRTKETTF GATLSKDTTF<br>TSTDKAFVPY PEDTSTETIN SHEAAAATLT IHLQDGMVTN TSLTSSTKSS<br>PTPMTLSITS GMPNNFSEMP QQSTTLNLWR EETTTNVKTP LPSVEHHHHH H. |                    |                         |
| Formulation         | OMG protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.   |                    |                         |

**Introduction**

Oligodendrocyte-myelin glycoprotein (OMG) is a cell membrane protein which contains 8 leucine-rich repeats. The OMG 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 joint receptor complex consisting of the Nogo receptor and the p75 neurotrophin receptor.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Background

OMG Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 401 amino acids (25-418) and having a molecular mass of 45.4kDa (Molecular size on SDS-PAGE will appear at approximately 50-100kDa).OMG is fused to 8 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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