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**Product Data Sheet**


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Product Name: OMP Human  
 Cat. No.: GP24096  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Olfactory neuronal-specific protein; Olfactory marker protein; OMP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAEDRPQ QQLDMPLVL DQGLTRQMRL RVESLKQRGE KRQDGEKLLQ PAESVYRLNF TQQRLQFER WNVVLDKPGK VTITGTSQNW TPDLTNLMTR QLLDPTAIFW RKEDSDAIDW NEADALEFGE RLSDLAKIRK VMYFLVTFGE GVEPANLKAS VVFNQL.		
Formulation	OMP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 10% glycerol and 1mM DTT.		

**Introduction**

Olfactory marker protein (OMP) which is expressed in the cytoplasm of olfactory chemosensory neurons in the nasal neuroepithelium, is associated in a unique way with the mature olfactory receptor neurons in numerous vertebrate species. OMP have a modulatory part in the odor detection/signal transduction cascade and its expression is a sign of mature vertebrate olfactory receptor neurons (ORNs). OMP is also a potent enhancer of mitosis in fetal olfactory epithelial cells and it promotes an increase in uptake of tritiated thymidine in liver.

**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.

**Background**

OMP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 186 amino acids (1-163 a.a) and having a molecular mass of 21.3kDa. OMP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary

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

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chromatographic techniques.

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