

OMP, 1-163aa, Human, His tag, E.coli

Cat.NO.: TP03253

3th Edition

Synonyms:Olfactory marker protein , olfactory neuronal-specific protein

Description:Olfactory marker protein, also known as OMP, is uniquely associated with the mature olfactory receptor neurons in many vertebrate species from fish to man. It is expressed in the cytoplasm of olfactory chemosensory neurons in the nasal neuroepithelium. OMP expression is a sign of mature vertebrate olfactory receptor neurons (ORNs). OMP may have a modulatory role in the odor detection/signal transduction cascade. In fetal olfactory epithelial cells, OMP is also a potent enhancer of mitosis, and it promotes an increase in uptake of tritiated thymidine in liver. Recombinant human OMP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:21.3 kDa (186aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGMAEDRPQQPQLDMPLVLDQGLTRQMRLRVESLKQRGEKRDGEKLLQPA
ESVYRLNFTQQRLQFERWNVLDKPGKVTITGTSQNWTPDLTNLMTRQLLDPTAIFWRKEDSDAIDWNEADALE
FGERLSDLAKIRKVMYFLVTFGEGVEPANLKASVVFNQL

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by BCA assay)

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

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.