

Product datasheet for PH321572

Olfactory Marker Protein (OMP) (NM_006189) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	OMP MS Standard C13 and N15-labeled recombinant protein (NP_006180)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221572
Predicted MW:	18.8 kDa
Protein Sequence:	>RC221572 representing NM_006189 Red=Cloning site Green=Tags(s) MAEDRPQQPQLDMPLVLDQGLTRQMRLRVESLKQRGEKRQDGEKLLQPAESVYRLNFTQQRLQFERWNV VLDKPGKVTITGTSQNWTPDLTNLMTRQLLDPTAIFWRKEDSDAIDWNEADALEFGERLSDLAKIRKVMY FLVTFEGEVEPANLKASVVFNQL SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006180</u>
RefSeq Size:	492
RefSeq ORF:	489
Locus ID:	4975
UniProt ID:	<u>P47874</u>
Cytogenetics:	11q13.5



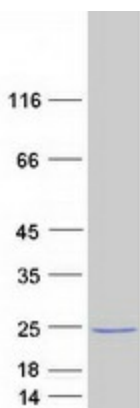
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Summary:

Olfactory marker protein is uniquely associated with the mature olfactory receptor neurons in many vertebrate species from fish to man. The OMP gene structure and protein sequence are highly conserved between mouse, rat and human. Results of the mouse knockout studies show that OMP-null mice are compromised in their ability to respond to odor stimuli, and that OMP represents a novel modulatory component of the odor detection/signal transduction cascade. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome

Product images:

Coomassie blue staining of purified OMP protein (Cat# [TP321572]). The protein was produced from HEK293T cells transfected with OMP cDNA clone (Cat# [RC221572]) using MegaTran 2.0 (Cat# [TT210002]).