Data Sheet (Cat.No.TMPY-00485)

TargetMol

Olfactory Marker Protein Protein, Human, Recombinant (His)

General Information

Synonyms:	OMP;olfactory marker protein
Protein Construction:	A DNA sequence encoding the human OMP (P47874) (Met1-Leu163) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	P47874
Molecular Weight:	21.2 kDa (predicted); 23-27 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

OMP (Olfactory Marker Protein) is a Protein Coding gene. OMP is a protein expressed in the mature olfactory and vomeronasal neurons of many vertebrates, such as mammals, amphibians, and bony fishes. Its structure and protein sequence are highly conserved between the mouse, rat, and human. OMP is a ubiquitous, cytoplasmic protein found in mature olfactory receptor neurons of all vertebrates. It participates in the olfactory signal transduction pathway. OMP expression is a hallmark of mature vertebrate olfactory receptor neurons (ORNs).

Evidence for OMP function derives from altered behavioral and electrophysiological activities of OMP-KO mice. Diseases associated with OMP include Epiglottitis and Haemophilus Influenzae.

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