

LSAMP Protein, Human, Recombinant (hFc)

General Information

Synonyms:	limbic system-associated membrane protein;FLJ35396;FLJ34254;FLJ37216;LAMP;IGLON3;FLJ54658
Protein Construction:	A DNA sequence encoding the human LSAMP (Q13449) (Met 1-Asn 315), without the pro peptide, was fused with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Val 29
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13449
Molecular Weight:	59 kDa (predicted); 80-85 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	1. Measured by its binding ability in a functional ELISA. 2. Immobilized recombinant human OPCML-His at 10 µg/mL can bind recombinant human LSAMP-Fc with a linear range of 31.25-250 ng/ml.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
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

The limbic system-associated membrane protein (LAMP) is a cell surface glycoprotein expressed by cortical and subcortical regions of the mammalian CNS that comprise or receive direct projections from limbic system

structures. The 64-68-kDa glycoprotein limbic system-associated membrane protein (LsAMP) is expressed on the surface of somata and proximal dendrites of neurons. These areas perform cognitive and autonomic functions, also learning, and memory. The functional analysis indicates that LsAMP acts as a selective adhesion molecule, serving as a guidance cue for specific patterns of connectivity, which underlies the normal development of the limbic system. In animal studies there has been found that rats with an increased level of anxiety had 1.6-fold higher expression of the LsAMP gene in the periaqueductal gray compared to rats with a low level of anxiety, indicating a possible role of LsAMP in the regulation of anxiety.

Reference

Zacco A. et al., 1990, The Journal of Neuroscience. 10(1): 73-90.

Pimenta AF. et al., 1996, Gene. 170(2) :189-95.

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