



Recombinant Protein Technical Manual

Recombinant Mouse LY-96/ESOP Protein (Fc Tag)

RPES0901

Product Data:

Product SKU: RPES0901

Size: 50µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: Q9JHF9

Protein Information:

Molecular Mass: 43.4 kDa

AP Molecular Mass: 47 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: ESOP;MD-2;MD2

Immunogen Information:

Sequence: Met1-Asn160

Background:

LY-96, also known as ESOP, is a protein which associates with toll-like receptor 4 on the cell surface and confers responsiveness to lipopolysaccharide (LPS). LY-96 also cooperates with TLR2 in the response to cell wall components from Gram-positive and Gram-negative bacteria. It enhances TLR4-dependent activation of NF-kappa-B. ESOP has 160 amino acids, the sequence of which shows 64% identity with human ESOP/MD-2. ESOP mRNA is highly expressed in the mouse embryos at 7.5 days after coitus.