

Recombinant Mouse LY-96/ESOP-1 Protein (Fc Tag)

Catalog No. PKSM040358

Note: Centrifuge before opening to ensure complete recovery of vial contents.

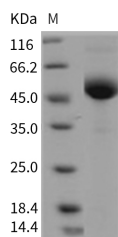
Description

Synonyms	ESOP-1;MD-2;MD2
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met1-Asn160
Accession	Q9JHF9
Calculated Molecular Weight	43.4 kDa
Observed molecular weight	47 kDa
Tag	C-hFc
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

LY-96, also known as ESOP-1, 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

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from Gram-positive and Gram-negative bacteria. It enhances TLR4-dependent activation of NF-kappa-B. ESOP-1 has 160 amino acids, the sequence of which shows 64% identity with human ESOP-1/MD-2. ESOP-1 mRNA is highly expressed in the mouse embryos at 7.5 days after coitus.