

MSLN/Mesothelin Protein (Primary Amine Labeling), Cynomolgus, Recombinant (His),

General Information

Synonyms: MPFSMRP; Mesothelin; MPF; SMR; MSLN; CAK1

Protein Construction: Asp296-Gly580

Species: Cynomolgus

Expression Host: HEK293 Cells

Accession: XP_005590873.4

Molecular Weight: 33 kDa (predicted). Due to glycosylation, the protein migrates to 35-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity: Immobilized Anti-MSLN Antibody, hFc Tag at 1 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Biotinylated Cynomolgus MSLN, His Tag with the EC50 of 54.8ng/ml determined by ELISA.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

Endotoxin: < 1 EU/ μ g by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

Mesothelin, also known as MSLN, is a protein that in humans is encoded by the MSLN gene. Cloning studies showed that the mesothelin gene encodes a precursor protein that is processed to yield mesothelin which is attached to the cell membrane by a glycoprophatidylinositol linkage and a 31-kDa shed fragment named

megakaryocyte-potentiating factor (MPF). Although it has been proposed that mesothelin may be involved in cell adhesion, its biological function is not known. A knockout mouse line that lacks mesothelin reproduces and develops normally.

Reference

Adusumilli P S, et al. Regional delivery of mesothelin-targeted CAR T cell therapy generates potent and long-lasting CD4-dependent tumor immunity[J]. Science Translational Medicine, 2014, 6(261):261ra151-261ra15

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