Data Sheet (Cat.No.TMPK-00463)

TargetMol

OX40/TNFRSF4 Protein, Mouse, Recombinant (His & Avi)

General Information

Synonyms:	CD134;OX40 homologue;OX40;IMD16;OX40L receptor; TXGP1L;TNFRSF4;Ly-70;ACT-135
Protein Construction:	Val20-Pro211
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P47741
Molecular Weight:	24.2 kDa (predicted). Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Mouse OX40 Ligand, hFc Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Mouse OX40, His Tag with the EC50 of 0.56μg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 92% as determined by HPLC
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, 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 μg/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.

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

Tumor necrosis factor receptor superfamily, member 4 (TNFRSF4), also known as CD134 and OX40 receptor. OX40 is a secondary co-stimulatory immune checkpoint molecule, expressed after 24 to 72 hours following activation; its ligand, OX40L, is also not expressed on resting antigen presenting cells, but is following their activation.

Reference

Al-Shamkhani A, et al. Affinity and Kinetics of the Interaction between Soluble Trimeric OX40 Ligand, a Member of the Tumor Necrosis Factor Superfamily, and Its Receptor OX40 on Activated T Cells[J]. Journal of Biological Chemistry, 1997, 272(8):5275-5282.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481