Data Sheet (Cat.No.TMPK-00063)

TargetMol

OX40L/TNFSF4 Trimer Protein, Human, Recombinant (His & Flag)

General Information

Synonyms:	TXGP1;CD134 ligand;TNFSF4;OX4OL;OX40L;OX40 Ligand;CD252;CD134L;OX-40L; Glycoprotein Gp34
Protein Construction:	Gln51-Leu183
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P23510-1
Molecular Weight:	49.7 kDa (predicted). Due to glycosylation, the protein migrates to 65-140 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human OX40 Ligand Trimer, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human OX40, hFc Tag with the EC50 of 26.6ng/ml determined by ELISA.
Purity:	> 90% as determined by Tris-Bis 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, 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 ligand superfamily member 4 (TNFSF4) is also known as glycoprotein Gp34, OX40 ligand (OX40L),which belongs to the tumor necrosis factor family. It is expressed on such cells as DC2s (a subtype of dendritic cells) enabling amplification of Th2 cell differentiation.

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