Data Sheet (Cat.No.TMPY-02757U)

TargetMol

TWEAKR/TNFRSF12A Protein, Human, Recombinant (aa 28-80, hFc)

General Information

Synonyms: TWEAKR;CD266;tumor necrosis factor receptor superfamily member 12A;FN14

Protein Construction: Glu28-Per80

Species: Human

Expression Host: HEK293 Cells

Accession: Q9NP84-1

Molecular Weight: 32.9 kDa (Predicted); 38-45 kDa (Due to glycosylation)

QC Testing

Biological Activity: Immobilized Human TNFRSF12A, hFc Tag at 0.5 μg/ml (100 μl/Well) on the plate. Dose response curve for Biotinylated Anti-TNFRSF12A Antibody, hFc Tag with the EC50 of 13.8 ng/ml determined by ELISA (QC Test).
Human TNFSF12, hFc Tag immobilized on CM5 Chip can bind Human TNFRSF12A, hFc Tag with an affinity constant of 0.24 nM as determined in SPR assay (Biacore T200).

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

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

Formulation: Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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

Thyroid cancer (TC) is the most well-known endocrine neoplasia as well as a common malignant tumor in the head and neck.TNFRSF12A expression may be a potential useful prognostic molecular biomarker of bad survival in thyroid cancer, in addition, PPAR signaling pathway, insulin signaling pathway, mTOR signaling pathway may be

the key pathway controlled by TNFRSF12A in thyroid cancer. Further experimental ought to be performed to demonstrate the biologic effect of TNFRSF12A.

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