Data Sheet (Cat.No.TMPK-00723)

TargetMol

RANK/TNFRSF11A Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	CD265;Rank;FEO;ODFR;NF-KB;OSTS;TNFRSF11A;OPTB7;NFKB;TRANCER;LOH18CR1;Receptor activator of NF-KB;PDB2
Protein Construction:	Val31-Ser214
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	O35305
Molecular Weight:	47.0 kDa (predicted). Due to glycosylation, the protein migrates to 57-67 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% 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

TNFRSF11A, also known as receptor activator of NF-κB (RANK), activates several signaling pathways, such as NF-κB, JNK, ERK, p38α, and Akt/PKB. RANK/TNFRSF11A is a novel and frequent target for de novo methylation in gliomas, which affects apoptotic activity and focus formation thereby contributing to the molecular pathogenesis of gliomas.

Reference

von dem Knesebeck A, et al. RANK (TNFRSF11A) is epigenetically inactivated and induces apoptosis in gliomas. Neoplasia. 2012 Jun;14(6):526-34. doi: 10.1596/neo.12360. PMID: 22787434; PMCID: PMC3394195.

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