

## TNFR1/CD120a/TNFRSF1A Protein, Human, Recombinant

### General Information

Synonyms:	TNFRSF1A;TNFR60;Soluble Tumor Necrosis Factor type I;TNF-R55;CD120a;p55;TNFAR
Protein Construction:	Asp41-Asn202
Species:	Human
Expression Host:	CHO Cells
Accession:	P19438-1
Molecular Weight:	28~35 kDa (Reducing conditions)

### QC Testing

Biological Activity:	ED 50 < 50.0 ng/ml, measured in a cell proliferation assay using 929 cells in the presence of 1.0 ng/ml human TNF- $\alpha$ .
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/ $\mu$ g of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ 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:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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

TNF Receptor Type I, is also known as TNF R-p55/p60 and TNFRSF1A. It is a type I transmembrane protein member of the TNF receptor superfamily. It is expressed in most cell types. Binding of either TNF- $\alpha$  or TNF- $\beta$  to TNF-R1 initiates a signal transduction pathway that results in the activation of the transcription factor NF- $\kappa$ B, whose target genes are involved in the regulation of inflammatory responses, and, in certain cells, induce apoptosis. TNF-R1 is essential for proper development of lymph node germinal centers and Peyer's patches and for combating intracellular pathogens such as Listeria. It is stored in the Golgi and translocates to the cell surface following proinflammatory stimuli.

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