

# Recombinant human TNFR2/TNFRSF1B protein

Catalog Number: ATGP3179

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

23-257aa

### UniProt No.

P20333

### NCBI Accession No.

NP\_001057.1

### Alternative Names

Tumor necrosis factor receptor superfamily member 1B, Tumor necrosis factor receptor 2, TNF-R2, Tumor necrosis factor receptor type II, TNF-RII, TNFR-II, p75, p80 TNF-alpha receptor, Tumor necrosis factor-binding protein 2, TBP-2, TBPII, CD120b, TNFBR, TNFR80, TNF-R75

## PRODUCT SPECIFICATION

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### Molecular Weight

25.9 kDa (241aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its ability to inhibit cytotoxicity using L-929 mouse fibroblast cells in the presence of Human TNF- $\alpha$ . The ED50 range  $\leq$  0.2  $\mu$ g/ml.

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

TNFRSF1B, also known as tumor necrosis factor receptor superfamily member 1B, mediates most of the metabolic effects of TNF-alpha. The receptor isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity. Further, high plasma levels of TNFRSF1B were significantly associated with increased incidence of coronary heart disease. Recombinant human TNFRSF1B, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

LPAQVAFTPY APEPGSTCRL REYYDQTAQM CCSKCS PGQH AKVFCTKTS D TVCDSCEDST YQLWNWVPE CLSCGSRCSS DQVETQACTR EQNRICTCRP GWYCALSKQE GCRLCAPLRK CRPGFGVARP GTETSDVVCK PCAPGTFSNT TSSTDICRPH QICNVVAIPG NASMDAVCTS TSPTRSMAPG AVHLPQPVST RSQHTQPTPE PSTAPSTSFL LPMGPPPAE GSTGD<HHHHH H>

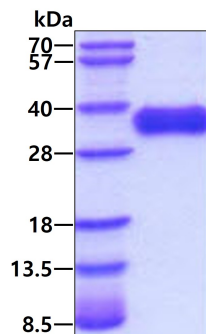
### General References

Maier O et al., (2013) Biochem. Biophys. Res. Commun. 440(2):336-341.

Govindaraj C et al., (2013) Clin. Immunol. 149(1):97-110.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

### Biological Activity

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Human TNFRSF1B inhibit cytotoxicity in the L-929 mouse fibroblast cells in the presence of Human TNF- $\alpha$ . The ED50 range  $\leq 0.2 \mu\text{g/ml}$ .

