

# TNF Receptor 2 $\square$ Fc fragment Region (human IgG1) Protein

Catalog No.: YR0143

## Basic Information

### Molecular Weight

### Endotoxin

<1EU/mg (<0.001EU/ $\mu$ g) Determined by LAL gel clotting assay

### Sterility

0.2  $\mu$ m filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SDS-PAGE

## Background

Etanercept, a fusion protein of the soluble TNF receptor 2 and a Fc fragment (human IgG1 isotype). Etanercept can be used to treat autoimmune diseases by interfering with tumor necrosis factor (TNF), a soluble inflammatory cytokine, by acting as a TNF inhibitor. TNF alpha is the "master regulator" of the inflammatory (immune) response in many organ systems. Autoimmune diseases are caused by an overactive immune response. Etanercept has the potential to treat these diseases by inhibiting TNF alpha. Etanercept binds to TNF alpha and decreases its role in disorders involving excess inflammation in humans and other animals, including autoimmune diseases such as ankylosing spondylitis, juvenile rheumatoid arthritis, psoriasis, psoriatic arthritis, rheumatoid arthritis, and, potentially, in a variety of other disorders mediated by excess TNF alpha.

## Reported Applications

Functional assays, and those assays for studying biological pathways affected by etanercept.

## Immunogen Information

### Clone

Etanercept Biosimilar

### Isotype

Human IgG1 Fc

### Immunogen

### Recommended Isotype Control(s)

In Vivo Grade Recombinant Human IgG1 Fc Protein

### Recommended Dilution Buffer

1xPBS pH 7.1 to 7.7

## Contact

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## Product Information

### Production

Purified from cell culture supernatant in an animal-free facility

### Purification

Protein A or G purification

### Storage

Store at 2 - 8°C. 2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)