

# TNFRII-Fc-IL 1RA

**Cat. No.** TFI-P1007H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Duplexprotein drug that TFI was fused with tumor necrosis factor receptor 2 and interleukin-1 receptor antagonist by Fc fragment of human IgG protein.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	<p>The role of TNF in inflammatory diseases has been well established. TNFRII fused to human IgG1 Fc fragment (trade name Enbrel) has been used for treating certain TNF-dependent disorders such as rheumatoid arthritis and psoriasis. Since TNF alpha and IL-1 are two major players in inflammatory diseases, a fusion or chimeric of a TNF antagonist and an IL-1ra or its functional equivalent can be used to block both TNF alpha and IL-1 pathways, and therefore can be used to treat acute and chronic inflammation-related diseases more effectively than each individually. IL-1ra binds to IL-1 receptors and directs the fused therapeutic agent to IL-1 receptor-rich inflammation site. It also neutralizes IL-1 activity. The fusion of IL-1ra and any of these proteins can be used in treating inflammation, asthma, and angiogenesis-related disorders or endothelial cell proliferation-related disorders.</p>
<b>Purity</b>	>95% as determined by SDS-PAGE and HPLC
<b>Endotoxin</b>	<1.0 EU per 10 mg protein as determined by the LAL method
<b>Stability</b>	Samples are stable for up to six months from date of receipt at -20°C and are stable

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	fortwo months at 4°C.
<b>Molecular Mass</b>	TFIcontains 619 amino acid residues, monomer molecular weight is about 68kDa,double body weight is about 136kDa.
<b>Predicted N terminal</b>	LPAQVAFTPY
<b>Formulation</b>	Normally1mM PB, 80mM Sodium Chloride and 0.05 mg/ml Tween-80 are added, pH 7.4.
<b>Storage</b>	Store itunder sterile conditions at -70°Cupon receiving. Recommend to pack the protein intosmaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
<b>BACKGROUND</b>	<p><b>Introduction</b></p> <p>A tumor necrosisfactor receptor (TNFR), or death receptor, is a trimeric cytokine r eceptorthat binds tumor necrosis factors (TNF). The receptor cooperates with anad aptor protein (such as TRADD, TRAF, RIP), which is important in determiningthe outcome of the response. The interleukin-1 receptor antagonist (IL-1RA) is a prote in that in humans isencoded by the IL1RN gene. IL-1RA wasinitially called the IL- 1 inhibitor and was discovered separately in 1984 bytwo independent laboratories. IL-1RA,is an agent that binds non-productively to the cell surface interleukin-1rec eptor (IL-1R).IL-1R is the same receptor that binds interleukin 1 (IL-1). Hence IL- 1RA prevents IL-1 fromsending a signal to that cell.</p> <p><b>Keywords</b></p> <p>IL1RN;interleukin 1 receptor antagonist; DIRA; ICIL-1RA; IL-1RN; IL-1ra; IL-1r a3;TNFRII-Fc; TNF; tumor necrosis factor</p>

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