## Recombinant Rat IL-10 Protein (Trx Tag)



## **RPES8230**

## **Product Information**

Product SKU: Tag:	RPES8230 N-Trx	Expression Host: Reactivity:	E.coli Rat		ize: ccession:	20μg P29456
Additional Information						
Calculated MW	<b>:</b> 37.5 kDa	Obse	erved MW:	37.5 kDa		
Sequence:	Ser19-Asn17	78				

## **Protein Information**

Background: Major immune regulatory cytokine that acts on many cells of the immune system where it has profound anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. Mechanistically, IL10 binds to its heterotetrameric receptor comprising IL10RA and IL10RB leading to JAK1 and STAT2-mediated phosphorylation of STAT3. In turn, STAT3 translocates to the nucleus where it drives expression of anti-inflammatory mediators. Targets antigen-presenting cells (APCs) such as macrophages and monocytes and inhibits their release of pro-inflammatory cytokines including granulocyte-macrophage colony-stimulating factor /GM-CSF, granulocyte colony-stimulating factor/G-CSF, IL-1 alpha, IL-1 beta, IL-6, IL-8 and TNFalpha. Interferes also with antigen presentation by reducing the expression of MHCclass II and co-stimulatory molecules, thereby inhibiting their ability to induce T cell activation. Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, CSIF, Synonyms: Endotoxin: < 10 EU/mg of the protein as determined by the LAL method **Formulation**: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. > 90% as determined by reducing SDS-PAGE. Purity: **Bio-Activity**: Not validated for activity

Storage:Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to<br/>-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of<br/>reconstituted samples are stable at < -20°C for 3 months.</th>