

## Recombinant Swine TNF alpha protein(His Tag)

Catalog No. PKSS000010

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

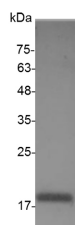
### Description

<b>Synonyms</b>	TNFSF2; Cachectin; Differentiation-inducing factor (DIF); Necrostatin; Cytotoxin; TNF- $\alpha$
<b>Species</b>	Porcine
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Leu 77-Leu 232
<b>Accession</b>	P23563
<b>Calculated Molecular Weight</b>	18.1 kDa
<b>Observed molecular weight</b>	19 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measure by its ability to induce cytotoxicity in PK15 cells in the presence of the actinomycin D. The ED <sub>50</sub> for this effect is < 15 pg/mL.

### Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 98 % as determined by reducing SDS-PAGE.

### Background

#### For Research Use Only

Tumor necrosis factor alpha (TNF $\alpha$ ) is the prototypic ligand of the TNF superfamily. TNF $\alpha$  forms a homotrimer and functions by activating two types of receptors TNF-R1 (TNF receptor type 1,p55R) and TNF-R2 (TNF receptor type 2,p75R). TNF $\alpha$  is a pleiotropic cytokine that is capable to promote inflammation, to induce apoptotic cell death, and to inhibit tumorigenesis and viral replication. TNF $\alpha$  is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells.