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## Product Data Sheet

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Product Name: TREM1 Human  
 Cat. No.: GP24877  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Triggering receptor expressed on myeloid cells 1; Triggering receptor expressed on monocytes 1; TREM-1; TREM1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMATKLTE EKVELKEGQT LDVKCDYTLK KFASSQKAWQ IIRDGEMPKT LACTERPSKN SHPVQVGR II LEDYHDHGLL RVRMVNLQVE DSGLYQCVIY QPPKEPHMLF DRIRLVVTKG FSGTPGSNEN STQNVYKIPP TTTKALCPLY TSPRTVTQAP PKSTADVSTP DSEINLTNVT DIIRVPVFN.		
Formulation	TREM1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 30% glycerol and 1mM DTT.		

### Introduction

TREM1 is a transmembrane receptor protein that is involved in monocytic activation and in the inflammatory response. TREM1 is expressed on the surface of neutrophils, mature monocytes and macrophages. TREM1 stimulates neutrophil and monocyte-mediated inflammatory responses. TREM1 also triggers the release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. Furthermore, TREM1 is an amplifier of inflammatory responses that are triggered by bacterial and fungal infections and is a fundamental mediator of septic shock. The expression of the soluble form of TREM1 increases during sepsis and can consequently be used as a biological marker for septic shock. TREM1 is strongly expressed in acute inflammatory lesions caused by bacteria and fungi. Increased TREM1 expression on monocytes is related to both infectious and noninfectious inflammatory processes. TREM1 is vastly expressed in adult liver, lung and spleen than in corresponding fetal tissue. TREM1 is also expressed in the lymph node, placenta, spinal cord and heart tissues. TREM1 expression is more elevated in peripheral blood

**Caution: Product has not been fully validated for medical applications. For research use only.**

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leukocytes than in the bone marrow and in normal cells than malignant cells. TREM1 is expressed at low levels in the early development of the hematopoietic system and in the promonocytic stage and at high levels in mature monocytes.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

TREM1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 209 amino acids (21-205 a.a.) and having a molecular mass of 23.3kDa. TREM1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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