

# Recombinant human TREM2 protein

Catalog Number: ATGP2452

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

19-161aa

### UniProt No.

Q9NZC2

### NCBI Accession No.

NP\_061838.1

### Alternative Names

Ttriggering receptor expressed on myeloid cells 2 isoform 1, Triggering receptor expressed on myeloid cells 2, Triggering receptor expressed on myeloid cells 2a, TREM-2, Trem2a, Trem2b, Trem2c

## PRODUCT SPECIFICATION

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### Molecular Weight

20.4 kDa (181aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

TREM2 is a membrane protein that forms a receptorsignaling complex with the TYRO protein tyrosine kinase bindingprotein. The protein functions in immune response and maybe involved in chronic inflammation by triggering the production ofconstitutive inflammatory cytokines. Defects in this gene are acause of polycystic lipomembranous osteodysplasia with sclerosingleukoencephalopathy (PLOSL). Alternative splicing results in multiple transcript variants encoding different isoforms. Recombinant human TREM2 protein, fused to His-tag at

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N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHM>HN TTVFQGVAGQ SLQVSCPYS MKHWGRRKAW  
CRQLGEGPC QRVVSTHNLW LLSFLRRWNG STAITDDTLG GTLTITLRNL QPHDAGLYQC QSLHGSEADT LRKVLVEVLA  
DPLDHRDAGD LWFPGESESF EDAHVEHSIS R

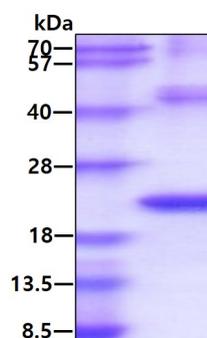
## General References

Bouchon A., et al (2000). J. Immunol. 164:4991-4995

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.