

TPO, rat recombinant protein**Thrombopoietin, Megakaryocyte colony-stimulating factor, c-MPL Ligand, MGDF**
Catalog # PBV10851r**Specification**

TPO, rat recombinant protein - Product infoPrimary Accession [P49745](#)
Calculated MW **18.7 kDa KDa****TPO, rat recombinant protein - Additional Info**Gene ID **81811**
Gene Symbol **TPO**
Other Names
Thrombopoietin, Megakaryocyte colony-stimulating factor, c-MPL Ligand, MGDFGene Source **Rat**
Source **E. Coli**
Assay&Purity **SDS-PAGE; ≥98%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence **SPVPPACDPR LLNKLLRDSY LLHSRLSQCP
DVNPLSIPVL LPAVDFSLGE WKTQTEQSKA
QDILGAVSLL LEGVMAARGQ LEPSCLSSLL
GQLSGQVRL L L G A L Q G L L G T Q L P P Q G R T T A
H K D P S A L F L S L Q Q L L R G K V R F L L L V E G P A L
C V R R T L P T T A V P S R T S Q L L T L N K F****Target/Specificity**

TPO

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from Sodium Citrate, pH 4.5

TPO, rat recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TPO, rat recombinant protein - Images

TPO, rat recombinant protein - Background

TPO is a lineage specific growth factor, produced in the liver, kidney and skeletal muscle. It stimulates the proliferation and maturation of megakaryocytes, and promotes increased circulating levels of platelets in vivo. TPO signals through the c-mpl receptor and acts as an important regulator of circulating platelets. Human and murine TPO exhibits cross-species reactivity. Recombinant rat TPO is a fully biologically active 174 amino acid polypeptide (18.7 kDa), which contains the erythropoietin-like domain of the full length TPO protein.

TPO, rat recombinant protein - References

Ogami K., et al. Gene 158:309-310(1995).