



Recombinant Mouse TPO

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-087S
Size:	2 µg
Lot. No.:	According to product label

Sequence

SPVAPACDPRLLNKLLRDSHLLHSRLSQCPDVPDPLSIPVLLPAVDFSLGEWK
TQTEQSKAQDILGAVSLLLEGVMAARGQLEPSCLSLLGQLSGQVRRLLLGAL
QGLLGTQLPLQGRRTAHKDPNALFSLQQLLRGKVRFLLLVEGPTLCVRRTL
PTTAVPSSTSQLLTLNKF

Database References

Protein RefSeq:	NP_033405.1
Uniprot ID:	P40226
mRNA RefSeq:	NM_009379.3

Scientific Background

Gene-ID (NCBI):	22018
Synonyms:	TPO, Thrombopoietin, MGDF, Megakaryocyte colony-stimulating factor, c-MPL Ligand

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 murine 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.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	174
MW:	18.7 kDa

Biological Activity: The ED50 as determined by the dose-dependent stimulation of the proliferation of human MO7e cells was found to be < 1.0 ng/ml, corresponding to a specific activity of > 1 x 10⁶ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!