

## **DATASHEET** Version 20181206

## TPO, His, Mouse

Cat. No.: Z03374-10

Size: 10.0 ug

Synonyms: C-mpl ligand, MGDF, Thpo; MGDF

**Description:** 

Thrombopoietin(TPO), also known as C-mpl ligand, MGDF and Thpo, is a glycoprotein hormone belonging to the EPO/TPO family. It is expressed mainly in the liver, kidney and skeletal muscle. TPO binds and signals through MLP/C\_MPL receptor. It stimulates the proliferation and maturation of megakary-ocytes from their committed progenitor cells, and it regulates the production and circulation of platelets. TPO has also been reported to promote the apoptosis of hypoxia-sensitized neurons and to inhibit neuronal differentiation.

Recombinant mouse TPO produced in *HEK293* cells with C-terminal Histidine tag, is a polypeptide chain containing 341 amino acids. rmTPO has a molecular mass of 62 70 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

## **Amino Acid Sequence:**

00001	SPVAPACDPR	LLNKLLRDSH	LLHSRLSQCP	DVDPLSIPVL
00041	LPAVDFSLGE	WKTQTEQSKA	QDILGAVSLL	LEGVMAARGQ
00081	LEPSCLSSLL	GQLSGQVRLL	LGALQGLLGT	QLPLQGRTTA
00121	HKDPNALFLS	LQQLLRGKVR	FLLLVEGPTL	CVRRTLPTTA
00161	VPSSTSQLLT	LNKFPNRTSG	LLETNFSVTA	RTAGPGLLSR
00201	LQGFRVKITP	GQLNQTSRSP	VQISGYLNRT	${\tt HGPVNGTHGL}$
00241	FAGTSLQTLE	ASDISPGAFN	KGSLAFNLQG	GLPPSPSLAP
00281	DGHTPFPPSP	ALPTTHGSPP	QLHPLFPDPS	TTMPNSTAPH
00321	PVTMYPHPRN	LSQETHHHHH	H	

Source: HEK 293 Species: Mouse

**Biological Activity**:  $ED_{50} < 2ng/ml$ , measured in a

proliferation assay using MO7e cells.

Molecular Weight: 62-70kDa, observed by reducing

SDS-PAGE.

Formulation: Lyophilized from a 0.2 µm filtered so-

lution in PBS.

**Reconstitution**: Reconstituted insterile  $ddH_2O$  or

PBS at 100 µg/ml.

**Purity**: .> 97% as analyzed by reducing SDS-PAGE.

Endotoxin Level: <0.2 EU/µg, determined by LAL

method.

**Storage**: Lyophilized recombinant Mouse TPO remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse TPO should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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