

Rev05
Update: Jan,19,2024

DATASHEET

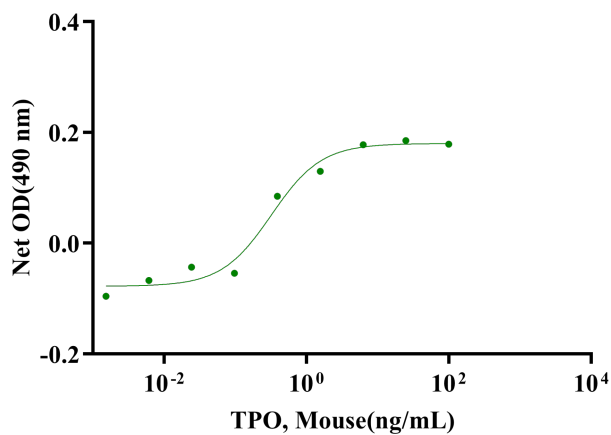
TPO, Mouse

Cat. No.: Z03175

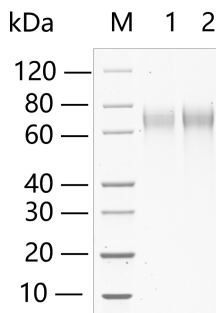
Product Introduction

Species	Mouse
Protein Construction	TPO (Ser22-Thr356) Accession # P40226
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 2.0 ng/ml, measured in a proliferation assay using MO7e cells.
Expression System	HEK 293 Cells
Apparent Molecular Weight	30~80 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 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.

Examples



ED₅₀ < 2.0 ng/ml, measured in a proliferation assay using MO7e cells.



Lane 1: 3 µg of TPO, Mouse, non-reducing (NR)

Lane 2: 3 µg of TPO, Mouse, reducing (R)

> 95% as analyzed by SDS-PAGE

Background

Target Background : 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 megakaryocytes 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.

Synonyms : Thrombopoietin; C-mpl ligand; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; Myeloproliferative leukemia virus oncogene ligand; THPO; MGDF; MKCSF; ML; MPLLG; THCYT1; TPO

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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