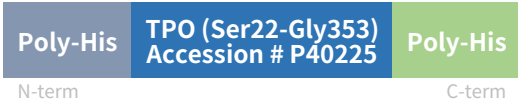


Rev05
Update: Jan,19,2024**DATASHEET**

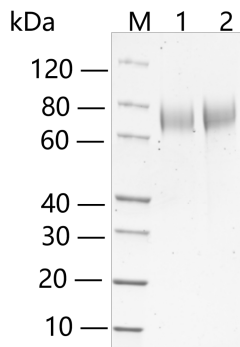
TPO, His, Human

Cat. No.: Z03434

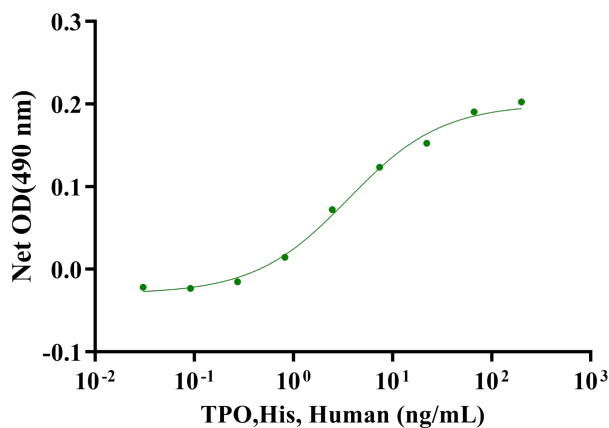
Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 1 EU/μg of protein by LAL method
Biological Activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED ₅₀ for this effect is typically 0.5-5.0 ng/ml.
Expression System	Human Cells
Apparent Molecular Weight	75~90 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
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 up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Examples



Lane 1: 3 μ g of TPO, His, Human, non-reducing (NR)
 Lane 2: 3 μ g of TPO, His, Human, reducing (R)
 > 95% as analyzed by SDS-PAGE



Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED₅₀ for this effect is typically 0.5-5.0 ng/ml.

Background

Target Background : Thrombopoietin (TPO) is a glycoprotein hormone which belongs to the EPO/TPO family. It produced by the liver and kidney which regulates the production of platelets. TPO stimulates the production and differentiation of megakaryocytes, the bone marrow cells that bud off large numbers of platelets. Lineage-specific cytokine affects the proliferation and maturation of megakaryocytes from their committed progenitor cells. It acts at a late stage of megakaryocyte development. It may be the major physiological regulator of circulating platelets.

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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Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China