

DA3549S**Human Thrombopoietin - Purified****Alternate names:**

C-mpl ligand, MGDF, Megakaryocyte colony-stimulating factor, Megakaryocyte growth and development factor, Myeloproliferative leukemia virus oncogene ligand, THPO

Quantity:

2 µg

Background:

Thrombopoietin is a glycoprotein hormone produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. It stimulates the production and differentiation of megakaryocytes, the bone marrow cells that fragment into large numbers of platelets.

Uniprot ID:

[P40225](#)

NCBI:

[NP_000451.1](#)

GenelD:

[7066](#)

Species:

Human

Source:

E. coli

Format:

State: Lyophilized (freeze-dried) without buffer and stabilizer

Purity: >98% pure by SDS-PAGE

Endotoxin Level: < 0.1 ng per µg (IEU/µg) of rh TPO

Reconstitution: Restore in sterile water not less than 0.1 mg/ml which can then be further diluted into other aqueous buffers.

Description:

Thrombopoietin Human Recombinant produced in E.Coli is a single, non-glycosylated soluble polypeptide chain containing 174 amino acids and having a Molecular Mass of 18608 Dalton which comprises the receptor binding domain of the Mpl-ligand protein.

AA Sequence:

SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPV LPAVDFSLGE WKTQMEETKA
QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLL LGALQSL LGT QLPPQGRTTA
HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNEL

Biological Activity: The **ED50** as determined by the dose-dependent stimulation of MO7e cells (with SCF) is 1,95 ng/ml, corresponding to a specific activity of 5×10^5 U/mg.

Specific Activity: 5×10^5 units/mg

Molecular weight: 18.6 kDa (174 aa)

Add. Information:

Centrifuge vials before opening!

Storage:

Lyophilized TPO although stable at Room Temperature for 3 weeks, should be stored desiccated below -18°C.

Upon reconstitution Human TPO should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Avoid repeated freeze-thaw cycles!

Shelf life: One year from despatch.