Recombinant Human Thrombopoietin (rh TPO / source HEK)

Synonyms: Megakaryocyte colony-stimulating factor (MKCSF), Myeloproliferative leukemia virus oncogene ligand, C-mpl ligand, ML, Megakaryocyte growth and development factor (MGDF)

Introduction: 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.

Description: Thrombopoietin Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 80-85kDa due to glycosylation.
The TPO is purified by proprietary chromatographic techniques

Source: HEK

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Filtered (0.2µm) and lyophilized from 0.73mg/ml in 1xPBS.
The aliquots of 1µg and 2 µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized Thrombopoietin in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Stability: Lyophilized rh TPO although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh 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.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Biological Activity: The activity was determined by the dose-dependent stimulation of the proliferation of MO7e cells, the EC_{50} is 3.8ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

small	2 µg	Cat.N°	11344862
medium	10 µg	Cat.N°	11344863
large	50 µg	Cat.N°	11344865
x-large	250 µg	Cat.N°	11344867

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