



## Thrombopoietin, HEK, human recombinant (rHuTPO-HEK)

**Catalog No:** 97569  
**Lot No:** XXXXX  
**Source:** HEK293  
**Synonyms:** Megakaryocyte colony-stimulating factor, Myeloproliferative leukemia virus oncogene ligand, C-mpl ligand, ML, Megakaryocyte growth and development factor, MGDF, TPO, MKCSF, MPLLG, MGC163194, THPO

### 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.

### Description

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

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The TPO protein was filtered (0.2 µm) and lyophilized from 0.73 mg/ml in 1xPBS.

### Solubility

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

### Stability

Lyophilized Thrombopoietin, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 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% as determined by analysis by SDS-PAGE.

### Activity

The activity was determined by the dose-dependent stimulation of the proliferation of Mo7e cells. The EC<sub>50</sub> is 3.8 ng/ml.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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