



# rHu TPO HEK

recombinant human Thrombopoietin isolated from HEK cells

Product	Cat#	Package size
rHu Thrombopoietin isolated from HEK cells	C6381.0002	2µg
rHu Thrombopoietin isolated from HEK cells	C6381.0010	10µg
rHu Thrombopoietin isolated from HEK cells	C6381.1000	1mg

## Introduction:

Recombinant human Thrombopoietin (rHuTPO) expressed and isolated from HEK cells is a single, non-glycosylated polypeptide of 332 amino acids and a molecular mass of 78-84 kDa depending on the glycosylation.

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. Part of the protein (N-terminal domain) is very similar to erythropoietin, the hormone necessary for the production of erythrocytes (red blood cells).

## 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.

**Purity:** Greater than 95%, determined by SDS-PAGE

**Source:** HEK cells

## Amino acid sequence

SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRL  
LGALQSLGTL QLPPQGRRTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNELPNRTSG LLETNFTASA RTTGSGLLKW  
QQGFRAKIPG LLNQTSRSLD QIPGYLNRIH ELLNGTRGLF PGSRRTLGA PDISSGSDT GSLPPNLQPG YSPSPHPPT GQYTLFPLPP TLPTPVVQLH  
PLLDPDSAPT PTPTSPLLNT SYTHSQNLSQ EG

## Biological Activity:

The activity was determined by the dose-dependent stimulation of the proliferation of MO7e cells, the ED50 is 1.15ng/mL.

## Physical Appearance:

Sterile filtered (0.2µm) white lyophilized (freeze-dried) powder. The protein was lyophilized from 0.74mg/mL in 1xPBS.

## Solubility:

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

## Stability

Lyophilized rHu TPO although stable at room temperature for 3 weeks, should be stored below -20°C. Upon reconstitution rHu TPO should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA).

**Please prevent from repeated freeze-thaw cycles.**

## Usage

The Genaxxon bioscience rHu TPO is offered for research, laboratory or further manufacturing purposes only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.