

rHu TPO

recombinant human Thrombopoietin

fon:
+49 (0)731 - 3608 123
fax:
+49 (0)731 - 3608 962
eMail:
info@genaxxon.com
internet:
www.genaxxon.com

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

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.

Rec. human Thrombopoietin is produced in *E. Coli* as a single, non-glycosylated polypeptide chain of 174 amino acids and a molecular mass of 18.8 kDa which comprises the receptor binding domain of the Mpl-ligand protein.

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 90%, determined by SDS-PAGE (silver stained)

Source: *E. Coli*

Amino acid sequence

SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLG LGALQSLGTT QLPQGRRTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTA VPSRTSLVLT LNEL.

Biological Activity:

The ED50, as determined by the dose-dependent proliferation of MO7e cells (with SCF), is 1.95ng/mL, corresponding to a specific activity of 5x10E5 units/mg.

Physical Appearance:

Sterile filtered white lyophilized (freeze-dried) powder. The protein was lyophilized from 10mM Na2PO4, pH7.5 solution.

Solubility:

It is recommended to reconstitute the lyophilized Thrombopoietin in sterile 18MΩ-cm H2O not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

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 or BSA).

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.