



Product Datasheet

Product Name	Thrombopoietin Human Recombinant, CHO
Cata No	CB500364
Source	<i>Chinese Hamster Ovarian Cells (CHO)</i>
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.

Description

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. Thrombopoietin Human Recombinant is approximately 80 kDa, consisting of a 332 amino acid residue with a predicted molecular mass of approximately 35 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 80±10 kDa in SDS-PAGE.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED50 as determined by the dose-dependant stimulation of MO7e cells is 1-3 ng/ml, corresponding to a Specific Activity of 1 x 10⁶ IU/mg.

Purity

Greater than 97.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM sodium citrate buffer, pH 6.9.

Stability

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

Sequence

SPAPPACDLR VLSKLLRDSH VLHSRLSQCP
EVHPLPTPVL LPAVDFSLGE WKTQMEETKA
QDILGAVTLL LEGVMAARGQ LGPTCLSSLL
GQLSGQVRLI LGALQSLLGT QLPPQGRRTA
HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL
CVRRAPPTTA VPSRTSLVLT LNELPNRTSG
LLETNFTASA RTTGSGLLKW QQGFRKIPG
LLNQTSRSLD QIPGYLNRIH ELLNGTRGLF
PGPSRRTLGA PDISSGTSMT GSLPPNLQPG
YSPSPHPPT GQYTLFPLPP TLPTPVVQLH
PLLDPSPAPT PTPTSPLLNT SYTHSQNLSQ EG

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