

Thrombopoietin Human Recombinant

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| Item Number | rAP-0738 |
| 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 Human Recombinant produced in E.Coli is a single, non-glycosylated soluble polypeptide chain containing 175 amino acids and having a molecular mass of 18.8kDa which comprises the receptor binding domain of the Mpl-ligand protein. The TPO is purified by proprietary chromatographic techniques. |
| Uniprot Accesion Number | P40225 |
| Amino Acid Sequence | MSPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDIL-GAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLI LGALQSLI LGT QLPPQGRITTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPITTA VPSRTSLVLT LNEL. |
| Source | Escherichia Coli. |
| Physical Appearance and Stability | Sterile Filtered White lyophilized (freeze-dried) powder. 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. |
| Formulation and Purity | Lyophilized from a sterile filtered solution containing 10mM sodium phosphate, pH 7.5. Greater than 90.0% as determined by SDS-PAGE. |
| Application | |
| 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. |
| Biological Activity | The ED50, as determined by the dose-dependent proliferation of MO7e cells (with SCF), is 1.95 ng/ml, corresponding to a specific activity of 5x10 ⁵ units/mg. |
| Shipping Format and Condition | Lyophilized powder at room temperature. |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**