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## Product Data Sheet

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Product Name: Thrombopoietin Human

Cat. No.: GP26085

Batch No.: 1

**Product Data**

Purity &gt;98% Source HEK293 cells.

Physical Appearance solid Shipping Condition withIcePacks

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

Amino Acid Sequence  
 DGSHMSPAPP ACDLRVLSKL LRDSHVLHSR LSQCPEVHPL PTPVLLPAVD  
 FSLGEWKTQM EETKAQDILG AVTLLLEGVM AARGQLGPTC LSSLLGQLSG  
 QVRLLLGALQ SLLGTQLPPQ GRRTAHKDPN AIFLSFQHLL RGKVRFLMLV  
 GGSTLCVRRRA PPTTAVPSRT SLVLTNLNLP NRTSGLLETN FTASARTTGS  
 GLLKWQQGFR AKIPGLLNQT SRSLDQIPGY LNRIHELLNG TRGLFPGPSR  
 RTLGAPDISS GTSDTGSLPP NLQPGYSPSP THPPTGQYTL FPLPPTLPTP  
 VVQLHPLLDP PSAPTPTPTS PLLNTSYTHS QNLSQEGHHH HHH

Formulation TPO protein (0.25mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).

**Introduction**

Thrombopoietin is a glycoprotein hormone produced mainly by the liver and the kidney which regulates the production of platelets by the bone marrow. TPO stimulates the production as well as differentiation of megakaryocytes, the bone marrow cells which fragment into large numbers of platelets.

**Biological Activity**

The ED50 range is  $\leq 10$ ng/ml. It is measured by cell proliferation assay using MO7e human megakaryocytic leukemic cells.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for

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longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

TPO Human Recombinant produced in HEK293 cells is a single, glycosylated polypeptide chain containing 343 amino acids (22-353 a.a) and having a molecular mass of 36.8kDa. TPO is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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