

Recombinant Human Thrombopoietin Reference standard

Cat. No. THPO-13H Lot. No. (See product label)

SPECIFICATION

Product Overview	As a reference standard for biological activity of Thrombopoietin.
Species	Human
Description	Thrombopoietin (THPO) is a relatively lineage-specific cytokine that stimulates megakaryocyte growth and maturation in Thrombopoietin is a relatively lineage specific cytokine that stimulates megakaryocyte growth and maturation in vitro and is a potent in vivo thrombopoietic growth factor. On removal of the 21-amino acid signal peptide, the mature molecule consists of 2 domains: a receptor-binding domain that shows considerable homology to erythropoietin and a carbohydrate-rich carboxy-terminus of the protein that is highly glycosylated and important in maintaining protein stability.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. Dissolve the total contents of the ampoule in 1.0 ml of sterile distilled water. This solution will contain TPO at a concentration of 5,000 Units/ml. Use carrier protein where extensive dilution is required.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should

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include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

Stability

Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

Storage

For economy of use, it is recommended that the solution be sub divided into several small aliquots and stored at -40°C or below. The preparation should not be subjected to repeated thawing/freezing. Unopened ampoules should be stored at -20°C . Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name THPO thrombopoietin [Homo sapiens];

Official Symbol THPO

Synonyms

ML; TPO; MGDF; MKCSF; MPLLG; THCYT1; thrombopoietin; MPL ligand; c-mpl ligand; prepro-thrombopoietin; megakaryocyte stimulating factor; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; myeloproliferative leukemia virus oncogene ligand

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Gene ID	7066
mRNA Refseq	NM_000460
Protein Refseq	NP_000451
MIM	600044
UniProt ID	P40225
Chromosome Location	3q27
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Platelet Aggregation (Plug Formation), organism-specific biosystem
Function	cytokine activity; growth factor activity; hormone activity

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