

Recombinant Mouse Thrombopoietin (TPO)

Catalog Numbers PMC1144 (10 µg), PMC1145 (25 µg), PMC1141 (100 µg)

Pub. No. MAN0003644 Rev. B.0








Product specifications

Lot number	See product label.
Molecular weight	17 kDa
Purity	>95% as determined by SDS PAGE analysis.
Biological activity	ED ₅₀ ≤0.150 ng/mL, determined by the dose dependent proliferation of Mo7e cells. Determine the optimal concentration for each specific application using an initial dose response assay.
Formulation	Lyophilized, carrier free.
Sterility	Filtered before lyophilization through a 0.22 micron sterile filter.
Endotoxin	<0.1 ng/µg
Production	Produced in <i>E. coli</i> and purified via sequential chromatography.
Reconstitution recommendation	Centrifuge the vial briefly, before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in sterile, distilled water to a concentration of 0.1–1.0 mg/mL. Apportion the reconstituted protein into working aliquots and store at ≤ –20°C. Make any further dilutions of the reconstituted protein in low endotoxin medium or a buffered solution containing a carrier protein such as heat inactivated FCS or tissue culture grade BSA.
Suggested working dilutions	The optimal concentration should be determined for each specific application.
Storage	Store the lyophilized protein at 2–8°C or –20°C for long term storage, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at ≤ –20°C. Avoid repeated freeze-thaw cycles.
Expiration date	Expires one year from date of receipt when stored as instructed.
References	<p>Lok, S, Kaushansky, K, Holly, RD, et al. (1994) Cloning and expression of murine thrombopoietin cDNA and stimulation of platelet production in vivo. <i>Nature</i> 369:565-568.</p> <p>Lok, S, and Foster, DC. (1994) The structure, biology and potential therapeutic applications of recombinant thrombopoietin. <i>Stem Cells</i> 12:586-598.</p> <p>Gurney, AL, Kuang, WJ, Xie, MH, Malloy, BE, Eaton, DL, and De Sauvage, FJ. (1995) Genomic structure, chromosomal localization, and conserved alternative splice forms of thrombopoietin. <i>Blood</i> 85:981-988.</p> <p>Kaushansky, K, Lin, N, Grossmann, A, Humes, J, Sprugel, KH, and Broudy, VC. (1996) Thrombopoietin expands erythroid, granulocyte-macrophage, and megakaryocytic progenitor cells in normal and myelosuppressed mice. <i>Exp. Hematol.</i> 24:265-269.</p> <p>Kaushansky, K. (1998) Thrombopoietin and the hematopoietic stem cell. <i>Blood</i> 92:1-3.</p> <p>Yagi, M, Ritchie, KA, Sitnicka, E, Storey, C, Roth, GJ, and Bartelmez, S. (1999) Sustained ex vivo expansion of hematopoietic stem cells mediated by thrombopoietin. <i>Proc. Nat'l. Acad. Sci. U.S.A.</i> 96:8126-8131.</p>

Limited product warranty

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Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		



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