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ProductInformation

THROMBOPOIETIN (TPO), MOUSE RECOMBINANT Expressed in NSO cells

Product No. **T4184**

Product Description

Thrombopoietin (Tpo) is a 332 amino-acid peptide that serves as a lineage-specific regulator of platelet production *in vivo*. It has significant structural and sequence homology with erythropoietin, as well as weak homologies with interferon- α and the neurotrophins.¹

Thrombopoietin's exact mode of action is difficult to determine, due to the general hematopoietic and thrombopoietic actions of several cytokines, but recent studies suggest that Tpo exerts influence throughout the entire thrombopoietic process and appears to be necessary for complete maturation of megakaryocytes through formation of platelets.²

The biological activity of Thrombopoietin is measured in a cell proliferation assay using MO7e cells.³ The EC₅₀ is defined as the effective concentration of growth factor that elicits a 50% increase in cell growth in a cell-based bioassay.

Reagents

Lyophilized from a 0.2 μ m-filtered solution of PBS, pH 7.4.

Carrier Protein: 0.25 mg bovine serum albumin (BSA)

Reconstitution

Reconstitute the contents of the vial using 0.2 μ m-filtered PBS containing 0.1% HSA or BSA to a concentration not less than 5 μ g/ml.

Storage/Stability

Store product at -20 °C for 6 months. After reconstitution, store at 2-8 °C for 1 month. For extended storage, freeze in working aliquots at -70 °C or -20 °C. Repeated freezing and thawing is not recommended.

References

1. Kuter, D. J., Hunt, P., Sheridan, W. and Zucker-Franklin, D. eds. Thrombopoiesis and Thrombopoietins. 1997. Humana Press, Totowa, New Jersey.
2. Kaushansky, K. Blood **86**,419 (1995).
3. Avanzi, G. C. et al. Br. J. Haematol., **69**,359 (1988).

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