

RECOMBINANT MOUSE TPO

Catalog # 02720 5 mg per vial
Catalog # 02920 25 mg per vial

PRODUCT DESCRIPTION:

Thrombopoietin (Tpo) is a key regulator of megakaryocytopoiesis and thrombopoiesis *in vitro* and *in vivo*. Thrombopoietin has been shown to stimulate the maturation, as well as the proliferation, of megakaryocytes. Mouse Tpo is a 35 kDa protein containing 335 amino acid residues. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of approximately 75 kDa in SDS-PAGE.

SOURCE:

A DNA sequence encoding the mouse Tpo was expressed in the mouse myeloma cell line, NSO.

PURITY:

Greater than 97% as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng per µg of mouse Tpo as determined by the LAL method.

FORMULATION:

Lyophilized from a sterile-filtered solution in PBS containing 50 µg of bovine serum albumin per 1 µg of cytokine.

RECONSTITUTION:

It is recommended that sterile phosphate-buffered saline containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 5 µg/ml of the cytokine.

STABILITY/STORAGE:

The lyophilized powder is stable for greater than six months at -20°C to -70°C.

Reconstituted mouse Tpo can be stored under sterile conditions at 2°C to 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freezing and thawing.

ACTIVITY:

The ED₅₀ as measured in a cell proliferation assay using MO7e cells is typically 1-3 ng/ml.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**