

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant TPO, Mouse

Catalog Number: BK0289-10µg

Source: CHO

Quantity: 10µg

Description:

Thrombopoietin (TPO), also known as C-mpl ligand, MGDF and Thpo, is a glycoprotein hormone belonging to the EPO/TPO family. It is expressed mainly in the liver, kidney and skeletal muscle. TPO binds and signals through MLP/C_MPL receptor. It stimulates the proliferation and maturation of megakaryocytes from their committed progenitor cells, and it regulates the production and circulation of platelets. TPO has also been reported to promote the apoptosis of hypoxia-sensitized neurons and to inhibit neuronal differentiation.

Molecular Weight:

30-80 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 2 ng /ml, measured in a proliferation assay using MO7e cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SPVAPACDPRLLNKLLRD-
SHLLHSRLSQCPDVPDPLSIPVLLPAV-

DFSLGEWKTQTEQSKAQDIL-
GAVSLLLEGVMAARGQLEP-
SCLSSLLGQLSGQVRLLLGALQGLLGTQLPLQGR
TTAHKDPNALFLSLQQLLRGKVRFLLLVEGPT-
LCVRRTLPTTAVPSSTSQLLTLNK-
FPNRTSGLLETNFSVTARTAGPGLLSRLQG-
FRVKITPGQLNQTSPVQIS-
GYLNRTHGPNVNGTHGLFAG-
TSLQTLASDISPGAFNKGSLAFNLQGGGLPP-
SPSLAPDGHTPFPPSPALPTTHGSPQLHPLF-
PDPSTTMPNSTAPHPVTMYPHPRNLSQET

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml..

Storage:

Lyophilized recombinant murine Thrombopoietin (TPO) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, murine Thrombopoietin (TPO) should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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