TPO Rat E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Rat
Other names: Thrombopoietin, Megakaryocyte colony-stimulating factor, c-MPL Ligand, MGDF

Cat. No.:

RBG30077002	(2 µg)
RBG30077010	(10 µg)
RBG30077100	(100 µg)

Description

TPO is a lineage-specific growth factor produced in the liver, kidney and skeletal muscle. It stimulates the proliferation and maturation of megakaryocytes, and promotes increased circulating levels of platelets in vivo. TPO signals through the c-mpl receptor, and acts as an important regulator of circulating platelets. Human and murine TPO exhibit cross-species reactivity. Recombinant Rat TPO is a fully biologically active 174 amino acid polypeptide (18.7 kDa), which contains the erythropoietin-like domain of the full length TPO protein.

Research topic

Others

Amino Acid Sequence

SPVPPACDPR LLNKLLRDSY LLHSRLSQCP DVNPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRLL LGALQGLLGT QLPPQGRTTA HKDPSALFLS LQQLLRGKVR FLLLVEGPAL CVRRTLPTTA VPSRTSQLLT LNKF

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to stimulate the proliferation of human MO7e cells. The expected ED_{50} is ? 0.2 ng/ml, corresponding to a specific activity of ? 5×10^{6} units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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