

TPO/MGDF/THPO, Human, Recombinant

Cat. No. : PCK366

General Information

Synonyms	Megakaryocyte colony-stimulating factor;c-MPL Ligand;MGDF;THPO
Species	Human
Expression host	E.coli
Sequence	SPAPPACDLRVLSKLLRDShVLHSRLSQCEVHPLPTPVLLPAVDfSLGEWKTQMEETKAQDI LGAVTLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLLGTQLPPQGRTTAHKDPNA IFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLTNL with polyhistidine tag at the N-terminus.
Accession	P40225.1
Tag	His-tag at the N-terminus
Mol mass	19.6 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce proliferation in MO7e cells. The ED50 for this effect is < 2 ng/mL. The specific activity of recombinant human TPO is > 5 × 10 ⁵ IU/mg.

Product feature

Purity	> 95% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Thrombopoietin is a glycoprotein hormone produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. It stimulates the production and differentiation of megakaryocytes, the bone marrow cells that fragment into large numbers of platelets.

SDS-PAGE

