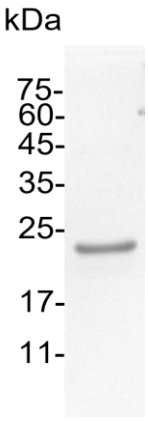
PRODUCT INFORMATION

GMP® TPO (Thrombopoietin), Human

v. 250301

Catalog number	C01126-GMP-1000
Package	1 mg
Description	Thrombopoietin (TPO) 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.
Expression System	*Escherichia coli*
Species of Origin	Human
Affinity Tag	His Tag (N-term)
Sequence	Ser22-Leu195
Endotoxin level	<0.05 EU per 1 μg of the protein by the LAL method.
Activity	Measure by its ability to induce proliferation in MO7e cells. The ED_{50} for this effect is <2 ng/mL.
Purity	>95% as determined by SDS-PAGE analysis.
Mycoplasma	Not detected
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

	• Animal-free reagent and laboratory • Manufactured and tested under GMP guideline • Testing and traceability of raw material • Records of the maintenance and equipment calibration • Personnel training records • Batch-to-batch consistency • Documentation of QA control and process changes • Manufactured and tested under an ISO 13485:2016 certified quality management system • Stability monitor of product shelf-life
Reference	1. Hitchcock IS, Kaushansky K. (2014) *Br J Haematol*. 165,2: 259-68. 2. Kuter DJ. (2013) *Int J Hematol*. 98,1: 10-23. 3. Kaushansky K. (1998) *N Engl J Med*. 339,11: 746-54. 4. Baatout S. (1997) *Haemostasis*. 27,1: 1-8.



SDS-PAGE analysis of GMP® TPO, Human

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