

PRODUCT INFORMATION

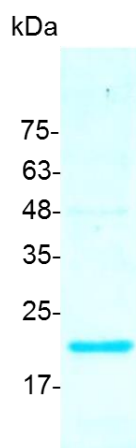
Croyez GMP® TPO (Thrombopoietin), Human

Catalog number	C01126-GMP-100 / C01126-GMP-1000
Package	100 µg / 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.
Source	<i>Escherichia coli</i> Animal-free reagent and laboratory Manufactured and tested under GMP guideline
Sequence	SPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLGEWKTO MEETKAQDILGAVTLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSL GTQLPPQGRTTAHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVP SRTSLVLTNEL with polyhistidine tag at the N-terminus
Endotoxin level	<0.01 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. Purified by Ni-NTA chromatography.
Formulation	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. This product is stable for one year upon receipt, when handled and stored as instructed. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.
Note	Please use within two weeks after protein reconstitution.
Specification	Croyez GMP® recombinant proteins are manufactured in ISO 13485:2016 and GMP-certified facility. The processes include:

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- 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
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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.
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SDS-PAGE analysis of Croyez GMP® TPO, Human

For Research Use Only. Not for use in diagnostic or therapeutic procedures.