

Human TPO (Thrombopoietin) Recombinant Protein, PeproTech®

Product Details

Size	10 µg
Species	Human
Published Species	Rat, Virus, Non-human primate, Hamster, Human, Mouse
Expression system	E. coli
Amino acid sequence	SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLL LGALQSLLGT QLPPQGRTTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNEL
Molecular weight	18.6 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	The ED50 as determined by the dose-dependent stimulation of the proliferation of human MO7e cells was found to be 1.0 ng/ml, corresponding to a specific activity of 1 x 10 ⁶ units/mg.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Neutralization (Neu)	-	1 Publication
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	352 Publications
Miscellaneous PubMed (Misc)	-	34 Publications

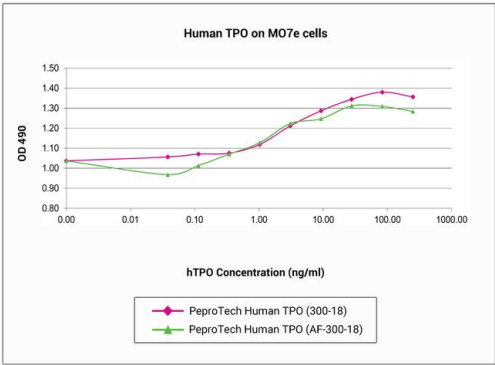
Product Specific Information

Recombinant Human TPO is a fully biologically active 174 amino acid polypeptide (18.6 kDa), which contains the erythropoietin-like domain of the full length TPO protein.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

Product Images For Human TPO (Thrombopoietin) Recombinant Protein, PeproTech®

Human TPO (Thrombopoietin) Protein (300-18-10UG) in Functional Bioassay analysis of Human TPO (Thrombopoietin) Recombinant Protein, PeproTech® (Product # 300-18-1MG).



Neutralization (1)

Blood Thrombopoietin promotes mixed lineage and megakaryocytic colony-forming cell growth but inhibits primitive and definitive erythropoiesis in cells isolated from early murine yolk sacs. Authors: Xie X,Chan R J,Johnson SA,Starr M,McCarthy J,Kapur R,Yoder MC	Year 2003 Species Mouse
--	--

In vitro Assay (352)

Cell death & disease Venetoclax triggers sublethal apoptotic signaling in venetoclax-resistant acute myeloid leukemia cells and induces vulnerability to PARP inhibition and azacitidine. "300-18 was used in Cell Culture to identify a new vulnerability in acquired venetoclax-resistant AML cells and identify PARP inhibition as a potential therapeutic approach to overcome acquired venetoclax resistance in AML." Authors: Tambe M,Unterberger S,Kriegbaum MC,Vänttinen I,Olgac E J,Vähä-Koskela M,Kontro M,Wennerberg K,Heckman CA	Year 2024 Species Human
---	--

iScience Decoding human bone marrow hematopoietic stem and progenitor cells from fetal to birth. "300-18 was used in Cell Culture to elucidate the dynamics of fetal hematopoiesis in preparation for birth, offering valuable insights into the pathological processes underlying leukemia." Authors: Xie X,Gou F,Zheng Z,Zhang Y,Zhang Y,Dong F,Cheng T,Cheng H	Year 2024 Species Mouse
--	--

[View more IV references on thermofisher.cn](#)

Miscellaneous PubMed (34)

STAR protocols Generation, expansion, and drug treatment of hematopoietic progenitor cells derived from human iPSCs. "300-18 was used in Cell Culture to provide protocol for generation of HPCs from iPSCs followed by HPC expansion on SI/SI feeder cells expressing FLT3L." Authors: Dannenmann B,Skokowa J	Year 2022 Species Human
---	--

[View more Misc references on thermofisher.cn](#)

More applications with references on thermofisher.cn

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.