abcam

Product datasheet

Recombinant rat Thrombopoietin protein ab129140

Description

Product name	Recombinant rat Thrombopoietin protein
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 x 10^6 units/mg.
Purity	> 98 % SDS-PAGE. Purity: > 98% by SDS-PAGE and HPLC analysis.
Expression system	Escherichia coli
Accession	P49745
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	SPVPPACDPR LLNKLLRDSY LLHSRLSQCP DVNPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRLL LGALQGLLGT QLPPQGRTTA HKDPSALFLS LQQLLRGKVR FLLLVEGPAL CVRRTLPTTA VPSRTSQLLT LNKF
Predicted molecular weight	19 kDa

Specifications

Our **Abpromise guarantee** covers the use of **ab129140** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE HPLC
Form	Lyophilized
Additional notes	Endotoxin level: < 0.1 ng/µg of Thrombopoietin protein.

Preparation and Storage

Stability and Storage	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstituted ab129140 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

General Info

Function	Lineage-specific cytokine affecting the proliferation and maturation of megakaryocytes from their committed progenitor cells. It acts at a late stage of megakaryocyte development. It may be the major physiological regulator of circulating platelets.
Involvement in disease	Defects in THPO are a cause of essential thrombocythemia (ET) [MIM:187950]. ET is inherited as an autosomal dominant trait which is characterized by elevated platelet levels due to sustained proliferation of megakaryocytes, and frequently lead to thrombotic and haemorrhagic complications.
Sequence similarities	Belongs to the EPO/TPO family.
Domain	Two-domain structure with an erythropoietin-like N-terminal and a Ser/Pro/Thr-rich C-terminal.
Cellular localization	Secreted.

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