

## TPO/Thyroid Peroxidase Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P78045
<b>Synonyms:</b>	TPO; THPO; MGC163194; MGDF; MKCSF; ML; MPLLG; THCYT1; MGDFC-mpl ligand; MK-CSF; MPL ligand; Thrombopoietin; TPOMKCSF
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	P35419 (G32-R834)
<b>Gene ID:</b>	22018
<b>Molecular Weight:</b>	100-115 kDa

### PROPERTIES

#### AA Sequence

G	K	T	M	K	S	H	V	I	S	A	V	E	T	S	Q	L	M	V	D	H	A	V	Y	N	T	M	K	R	N	L	K	K	R	E	V	L	S	P	A	
Q	L	L	S	F	F	K	L	P	E	S	T	S	G	A	I	S	R	A	A	E	I	M	E	T	S	I	Q	V	M	K	R	E	Q	S	Q	F	S	T	D	
A	L	S	A	D	I	L	G	T	I	A	N	L	S	G	C	L	P	F	M	L	P	P	R	C	P	D	T	C	L	A	N	K	Y	R	P	I	T	G	A	
C	N	N	R	D	H	P	R	W	G	A	S	N	T	A	L	A	R	W	L	P	P	V	Y	E	D	G	F	S	Q	P	K	G	W	N	P	N	F	L	Y	
H	G	F	P	L	P	P	V	R	E	V	T	R	H	L	I	Q	V	S	N	E	A	V	T	E	D	D	Q	Y	S	D	F	L	P	V	W	G	Q	Y	I	
D	H	D	I	A	L	T	P	Q	S	T	S	T	A	A	F	W	G	G	V	D	C	Q	L	T	C	E	N	Q	N	P	C	F	P	I	Q	L	P	S	N	
S	S	G	T	T	A	C	L	P	F	Y	R	S	S	A	A	C	G	T	G	D	Q	G	A	L	F	G	N	L	S	A	A	N	P	R	Q	Q	M	N	G	
L	T	S	F	L	D	A	S	T	V	Y	G	S	S	P	G	V	E	K	Q	L	R	N	W	S	S	S	A	G	L	L	R	V	N	T	L	H	L	D	A	
G	R	A	Y	L	P	F	A	T	A	A	C	A	P	E	P	G	T	P	R	T	N	R	T	P	C	F	L	A	G	D	G	R	A	S	E	V	P	A	L	
A	A	V	H	T	L	W	L	R	E	H	N	R	L	A	S	A	F	K	A	I	N	K	H	W	S	A	N	T	A	Y	Q	E	A	R	K	V	V	G	A	
L	H	Q	I	I	T	M	R	D	Y	I	P	K	I	L	G	P	D	A	F	R	Q	Y	V	G	P	Y	E	G	Y	N	P	T	V	N	P	T	V	S	N	
I	F	S	T	A	A	F	R	F	G	H	A	T	V	H	P	L	V	R	R	L	N	T	D	F	Q	E	H	T	E	L	P	R	L	Q	L	R	D	V	F	
F	R	P	W	R	L	I	Q	E	G	G	L	D	P	I	V	R	G	L	L	A	R	A	A	K	L	Q	V	Q	G	Q	L	M	N	E	E	L	T	E	R	
L	F	V	L	S	N	V	G	T	L	D	L	A	S	L	N	L	Q	R	G	R	D	H	G	L	P	D	Y	N	E	W	R	E	F	C	G	L	S	R	L	
E	T	P	A	E	L	N	K	A	I	A	N	R	S	M	V	N	K	I	M	D	L	Y	K	H	A	D	N	I	D	V	W	L	G	G	L	A	E	K	F	
L	P	G	A	R	T	G	P	L	F	A	C	I	I	G	K	Q	M	K	A	L	R	D	G	D	R	F	W	W	E	N	T	N	V	F	T	D	A	Q	R	
Q	E	L	E	K	H	S	L	P	R	V	I	C	D	N	T	G	L	T	R	V	P	V	D	A	F	R	I	G	K	F	P	Q	D	F	E	S	C	E	D	
I	P	S	M	D	L	E	L	W	R	E	T	F	P	Q	D	D	K	C	V	F	P	E	E	V	D	N	G	N	F	V	H	C	E	E	S	G	K	L	V	
L	V	Y	S	C	F	H	G	Y	K	L	Q	G	Q	E	Q	V	T	C	T	Q	K	G	W	D	S	E	P	P	V	C	K	D	V	N	E	C	A	D	L	
T	H	P	P	C	H	P	S	A	Q	C	K	N	T	K	G	S	F	Q	C	V	C	T	D	P	Y	V	L	G	E	D	E	K	T	C	I	D	S	G	R	
L	P	R																																						

#### Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.

#### Endotoxin Level

<1 EU/ $\mu$ g, determined by LAL method.

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<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

<b>Background</b>	TPO, or Thyroid Peroxidase, orchestrates the iodination and coupling processes of the hormonogenic tyrosines within thyroglobulin, culminating in the synthesis of thyroid hormones T(3) and T(4).
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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