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SERPINA7 Protein (His tag)





Overview

Quantity:	50 μg
Target:	SERPINA7
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SERPINA7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse SerpinA7/TBG Protein (His Tag)
Sequence:	Met 1-Gln 418
Characteristics:	A DNA sequence encoding the mouse SERPINA7 (NP_808588.3) (Met 1-Gln 418) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	SERPINA7
Alternative Name:	SerpinA7/TBG (SERPINA7 Products)
Background:	Background: Thyroxine-binding globulin, also known as T4-binding globulin, Serpin A7 and TBG,
	is a secreted protein which belongs to the serpin family. TBG is synthesized primarily in
	the liver as a 54 kDa protein.TBG is genomically a serpin, although it has no inhibitory function

like many other members of this class of proteins. TBG binds thyroid hormone in circulation. It is one of three proteins (along with transthyretin and albumin) responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3) in the bloodstream. Of these three proteins, TBG has the highest affinity for T4 and T3, but is present in the lowest concentration. Despite its low concentration, TBG carries the majority of T4 in serum. Due to the very low serum concentration of T4 and T3, TBG is rarely more than 25% saturated with its ligand. Unlike transthyretin and albumin, TBG has a single binding site for T4/T3. TBG tests are sometimes used in finding the reason for elevated or diminished levels of thyroid hormone.

Synonym: C730040N12Rik;Tbg

Molecular Weight:

46.2 kDa

NCBI Accession:

NP_808588

Pathways:

Hormone Transport

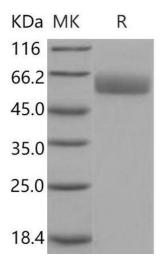
Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.