A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse SerpinA7/TBG Protein (His Tag)

Catalog Number: PKSM040745

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Mouse

Source HEK293 Cells-derived Mouse SerpinA7/TBG protein Met 1-Gln 418, with an C-terminal

His

Calculated MW 46.2 kDa Observed MW 55-60 kDa Accession NP 808588.3

Not validated for activity **Bio-activity**

Properties

> 97 % as determined by reducing SDS-PAGE. Purity

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage 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.

This product is provided as lyophilized powder which is shipped with ice packs. Shipping

Lyophilized from sterile PBS, pH 7.4 **Formulation**

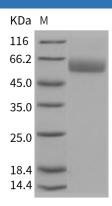
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Elabscience Bionovation Inc.



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Thyroxine-binding globulin, also known as T4-binding globulin, Serpin A7 and TBG, is a secreted protein which belongs to theserpin family. TBG is synthesized primarily in theliveras a 54 kDa protein. TBG is genomically aserpin, 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 thethyroidhormones 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 inserum. 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.

Fax: 1-832-243-6017