Datasheet for ABIN7198282

TCN2 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	TCN2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TCN2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TCN2 Protein (His Tag)(Active)
Sequence:	Met 1-Trp 427
Characteristics:	A DNA sequence encoding the human TCN2 (NP_000346.2) (Met 1-Trp 427) with a C-terminal polyhistidine tag was expressed.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human TCN2-His at 10µg/mL (100µL/well) can bind biotinylated mouse CD320-His.The EC50 of biotinylated mouse CD320-His is 18-42 ng/mL.

Target Details

Target:	TCN2

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Target Details

Alternative Name:	TCN2 (TCN2 Products)
Background:	Background: Transcobalamin II, also known as TCN2 and TC II, is a plasma protein that binds cobalamin (Cbl, vitamin B12) as it is absorbed in the terminal ileum and distributes to tissues. The circulating transcobalamin II-cobalamin complex binds to receptors on the plasma membrane of tissue cells and is then internalized by receptor-mediated endocytosis. Transcobalamin II is a non-glycolated secretory protein of molecular mass 43 kDa. Its plasma membrane receptor (TC II-R) is a heavily glycosylated protein with a monomeric molecular mass of 62 kDa. Human TCN2 gene is composed of nine exons and eight introns spanning approximately 20 kb with multiple potential transcription start sites. A number of genetic abnormalities are characterized either by a failure to express TCN2 or by synthesis of an abnormal protein. The TCN2 deficiency results in cellular cobalamin deficiency, an early onset of megaloblastic anaemia, and neurological abnormalities. Synonym: Transcobalamin-II,D22S676,D22S750,II,TC,TC-2,TC2,TCII
Molecular Weight:	46.7 kDa
NCBI Accession:	NP_000346

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.