

TCN2 / Transcobalamin-II Recombinant Protein | TCN2 recombinant protein

Recombinant Mouse TCN2 / Transcobalamin-II Protein (His tag)

CATALOG # AAA173589	HOST Human Cells
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PRODUCT SYNONYMS

TCN2 / Transcobalamin-II; Recombinant Mouse TCN2 / Transcobalamin-II Protein (His tag); RP23-352K10.7; TCN2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 95 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4
Sequence Length	430
Predicted N Terminal	Glu 19
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C

ADDITIONAL INFORMATION

Related Product Information for TCN2 recombinant protein	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-glycosylated 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. Description: A DNA sequence encoding the mouse TCN2 (O88968) (Met 1-Trp 430) was expressed, with a C-terminal polyhistidine tag.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	194440742
NCBI GeneID	21452
NCBI Accession #	NP_001123930.1
NCBI GenBank Nucleotide #	NM_001130458.1
UniProt Accession #	O88968 ; Q3TD34 ; Q3UP69 ; Q5SQ21
Molecular Weight	47,586 Da
NCBI Official Full Name	transcobalamin-2
NCBI Official Synonym Full Names	transcobalamin 2

NCBI Official Symbol	Tcn2
NCBI Official Synonym Symbols	Tcn-2; AW208754
NCBI Protein Information	transcobalamin-2
UniProt Protein Name	Transcobalamin-2
UniProt Gene Name	Tcn2
UniProt Synonym Gene Names	TC-2; TC II; TCII

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tcn2-recombinant-protein-human-cells/173589>