

TCN2/Transcobalamin-2 Protein, Mouse (HEK293, C-His)

Cat. No.:	HY-P76102A
Synonyms:	Transcobalamin-2; TC-2; TCII; Tcn2
Species:	Mouse
Source:	HEK293
Accession:	O88968 (E19-W430)
Gene ID:	21452
Molecular Weight:	Approximately 42.4 kDa

PROPERTIES

AA Sequence	<pre> E F C V I P R I D S Q L V E K L G Q R L L P W M D R L S S E Q L N P S V F V G L R L S S M Q A G T K E D L Y L H S L K I H Y Q Q C L L R S T S S D D N S S C Q P K L S G G S L A L Y L L A L R A N C E F F G S R K G D R L I S Q L K W F L E D E K K A I G H N H E G H P N T N Y Y Q Y G L S I L A L C V H Q K R L H D S V V G K L L Y A V E H D Y F T Y Q G H V S V D T E A M A G L A L T C L E R F N F N S D L R P R I T M A I E T V R E K I L K S Q A P E G Y F G N I Y S T P L A L Q M L M T S P A S G V G L G T A C I K A G T S L L L S L Q D G A F Q N P L M I S Q L L P I L N H K T Y L D L I F P D C Q A S R V M L V P A V E D P V H I S E V I S V T L K V A S A L S P Y E Q T F F V F A G S S L E D V L K L A Q D G G G F T Y G T Q A S L S G P Y L T S V L G K D A G D R E Y W Q L L R A P D T P L L Q G I A D Y K P Q D G E T I E L R L V R W </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD320 at 25 ng/mL (100 µL/well) can bind Biotinylated TCN2. The ED ₅₀ for this effect is 11.18 ng/mL, corresponding to a specific activity is 8.94×10 ⁴ Unit/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM HAC-NaAc, 150 mM NaCl, pH 4.0 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The TCN2/Transcobalamin-2 protein takes on the pivotal role of being the primary vitamin B12-binding and transport protein, facilitating the delivery of cobalamin to cells. Through its intricate interactions, TCN2 engages with CD320, specifically binding to LDL-receptor class A domains. This molecular partnership suggests a coordinated mechanism for the targeted delivery of vitamin B12 to cells, emphasizing the protein's crucial role in the efficient transport and uptake of this essential nutrient.

Caution: Product has not been fully validated for medical applications. For research use only.

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