

TCbLR Protein, Human, Recombinant (His)

General Information

Synonyms:	FDC-signaling molecule 8D6;CD320;8D6 antigen;Transcobalamin receptor;CD320 antigen;TCbLR;FDC-SM-8D6
Protein Construction:	Ser36-Val231
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NPF0
Molecular Weight:	32-58 KDa (reducing condition)
AA Sequence:	Ser36-Val231

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 10 mM Tris-Citrate, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD320 antigen is also known as 8D6 antigen, FDC-signaling molecule 8D6, Transcobalamin receptor and 8D6A. It is a single-pass type I membrane protein and containing two LDL-receptor class A domains. CD320 has been recently discovered and reported as a follicular dendritic cell (FDC) protein. CD320 can augments the proliferation of plasma cells precursors generated by IL-10. CD320 also functions a receptor for the cellular uptake of

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transcobalamin bound cobalamin. Defects in CD320 are the cause of methylmalonic aciduria type TCblR (MMATC) which is a metabolic disorder.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481