

DCBLD1 Protein, Human, Recombinant (His)

General Information

Synonyms:	dj94G16.1; discoidin, CUB and LCCL domain containing 1; RP1-94G16.1
Protein Construction:	A DNA sequence encoding the human DCBLD1 (Q8N8Z6-2) (Met1-Val459) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Glu 35
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8N8Z6-2
Molecular Weight:	48.4 kDa (predicted); 65 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

Discoidin, also known as DCBLD1, contains 1 CUB domain, 1 F5/8 type C domain and 1 LCCL domain. It is a 715 amino acid single-pass membrane protein. Discoidin has a discoidin I-like domain which shares a common C-terminal region of about 110 amino acids with the FA58C domain, but whose N-terminal 40 amino acids are much less conserved. Discoidin gene contains 31 distinct gt-ag introns. Transcription produces 18 different mRNAs, 16 alternatively spliced variants and 2 unspliced forms. Discoidin is expected to localize in various compartments.

Reference

The MGC Project Team. (2004) The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Genome Res. 14:2121-27.

Horton R, et al. (2003) The DNA sequence and analysis of human chromosome 6. Nature 425:805-11.

Suzuki Y, et al. (2004) Complete sequencing and characterization of 21,243 full-length human cDNAs. Nat Genet. 36:40-5.

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