

Human C1D Protein (GST Tag)

Catalog Number: 12432-H09E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

hC1D; LRP1; Rrp47; SUN-CoR; SUNCOR

Protein Construction:

A DNA sequence encoding the human C1D (Q13901) (Met 1-Ser 141) was fused with the GST tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 80 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human C1D/GST chimera consists of 375 amino acids and has a predicted molecular mass of 43.2 kDa. It migrates as an approximately 43 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

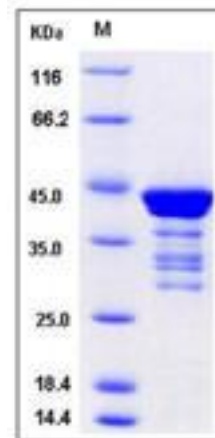
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

C1D nuclear receptor corepressor belongs to the C1D family. It is a DNA binding and apoptosis-inducing protein. C1D nuclear receptor corepressor interacts with TSNAX and DNA-PKcs. It acts as a corepressor for the thyroid hormone receptor. It is thought that C1D nuclear receptor corepressor regulates TRAX/Translin complex formation. It is expressed in kidney, heart, brain, spleen, lung, testis, liver and small intestine. It plays a role in the recruitment of the RNA exosome complex to pre-rRNA to mediate the 3'-5' end processing of the 5.8S rRNA; this function may include MPHOSPH6. It potentiates transcriptional repression by NR1D1 and THRB. C1D nuclear receptor corepressor can activate PRKDC not only in the presence of linear DNA but also in the presence of supercoiled DNA. It also can induce apoptosis in a p53/TP53 dependent manner.

References

1. Schilders G, *et al.* (2007) C1D is a major autoantibody target in patients with the polymyositis-scleroderma overlap syndrome. *Arthritis Rheum.* 56(7):2449-54.
2. Schilders G, *et al.* (2007) C1D and hMtr4p associate with the human exosome subunit PM/Sci-100 and are involved in pre-rRNA processing. *Nucleic Acids Res.* 35(8):2564-72.
3. Erdemir T, *et al.* (2002) DNA damage-dependent interaction of the nuclear matrix protein C1D with Translin-associated factor X (TRAX). *J Cell Sci.* 115(Pt 1):207-16.

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