

Datasheet for ABIN7546974

**DDB1 and CUL4 Associated Factor 15 (DCAF15) (AA 1-600)
protein (His tag)**[Go to Product page](#)

Overview

Quantity: 1 mg

Target: DDB1 and CUL4 Associated Factor 15 (DCAF15)

Protein Characteristics: AA 1-600

Origin: Human

Source: HEK-293 Cells

Protein Type: Recombinant

Purification tag / Conjugate: His tag

Product Details

Purpose: Custom-made recombinant DCAF15 Protein expressed in mammalian cells.

Sequence: MAPSSKSERN SGAGSGGGGP GGAGGKRAAG RRREHVLKQL ERVKISGQLS PRLFRKLPPR
VCVSLKNIVD EDFLYAGHIF LGFSKCGRYV LSYTSSSGDD DFSFYIYHLY WWEFNVHSKL
KLVRQVRLFQ DEEISDLYL TVCEWPSDAS KVIVFGFNTR SANGMLMNM MMSDENHRDI
YVSTVAVPPP GRCAACQDAS RAHPGDPNAQ CLRHGFMLHT KYQVVYPFPT FQPAFQLKGD
QVLLNTSYS LVACAVSVHS AGDRSFCQIL YDHSTCPLAP ASPPEPQSPE LPPALPSFCP
EAAPARSSGS PEPSPAIAKA KEFVADIFRR AKEAKGGVPE EARPALCPGP SGSRCAHSE
PLALCGETAP RDSPPASEAP ASEPGYVNYT KLYYVLESGE GTEPEDELED DKISLPFVVT
DLRGRNLRPM RERTAVQGQY LTVEQLTLD EYVINEVIRH DATWGHQFCS FSDYDIVILE
VCPETNQVLI NIGLLLLAFP SPTEEGQLRP KTYHTSLKVA WDLNTGIFET VSVGDLTEVK
GQTSGSVWSS YRKSCVDMVM KWLVPESGR YVNRMTNEAL HKGCSLKVLA DSERYTWIVL

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary.

Product Details

In case you have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: DDB1 and CUL4 Associated Factor 15 (DCAF15)

Alternative Name: DCAF15 ([DCAF15 Products](#))

Background: DDB1- and CUL4-associated factor 15,FUNCTION: Substrate-recognition component of the DCX(DCAF15) complex, a cullin-4-RING E3 ubiquitin-protein ligase complex that mediates ubiquitination and degradation of target proteins (PubMed:16949367, PubMed:31452512). The DCX(DCAF15) complex acts as a regulator of the natural killer (NK) cells effector functions, possibly by mediating ubiquitination and degradation of cohesin subunits SMC1A and SMC3 (PubMed:31452512). May play a role in the activation of antigen-presenting cells (APC) and their interaction with NK cells (PubMed:31452512). {ECO:0000269|PubMed:16949367, ECO:0000269|PubMed:31452512}., FUNCTION: Binding of aryl sulfonamide anticancer drugs, such as indisulam (E7070) or E7820, change the substrate specificity of the DCX(DCAF15) complex, leading to promote ubiquitination and degradation of splicing factor RBM39

Target Details

(PubMed:28437394, PubMed:28302793, PubMed:31693891, PubMed:31452512). RBM39 degradation results in splicing defects and death in cancer cell lines (PubMed:28437394, PubMed:28302793, PubMed:31693891). Aryl sulfonamide anticancer drugs change the substrate specificity of DCAF15 by acting as a molecular glue that promotes binding between DCAF15 and weak affinity interactor RBM39 (PubMed:31686031, PubMed:31819272). Aryl sulfonamide anticancer drugs also promote ubiquitination and degradation of RBM23 and PRPF39 (PubMed:31693891, PubMed:31626998, PubMed:31686031).
{ECO:0000269|PubMed:28302793, ECO:0000269|PubMed:28437394, ECO:0000269|PubMed:31452512, ECO:0000269|PubMed:31626998, ECO:0000269|PubMed:31686031, ECO:0000269|PubMed:31693891, ECO:0000269|PubMed:31819272}.

Molecular Weight: 66.5 kDa

UniProt: [Q66K64](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months