

Datasheet for ABIN3075401

WDR26 Protein (AA 1-661) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	WDR26
Protein Characteristics:	AA 1-661
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WDR26 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MQANGAGGGG GGGGGGGGGG GGGGGQGQTP ELACLSAQNG ESSPSSSSSA GDLAHANGLL</p> <p>PSAPSAASNN SNSLNVNNGV PGGAAAASSA TVAAASATTA ASSSLATPEL GSSLKKKKRL</p> <p>SQSDDEVIRL IGQHLNGLGL NQTVDLLMQE SGRLEHPSA TKFRNHVM EG DWDKAENDLN</p> <p>ELKPLVHSPH AIVVRGALEI SQTLGLIIVR MKFLLLQKY LEYLEDGKVL EALQVLRCEL</p> <p>TPLKYNTERI HVLSGYLMCS HAEDLRAKAE WEGKGTASRS KLLDKLQTYL PPSVMLPPRR</p> <p>LQTLLRQAVE LQRDRCLYHN TKLDNNLDSV SLLIDHVCSR RQFPCYTQQL LTHECNEVWF</p> <p>CKFSNDGTKL ATGSKDTTVI IWQVDPDTHL LKLLKTLEGH AYGVSYIAWS PDDNYLVACG</p> <p>PDDCSELWLW NVQTGELRTK MSQSHEDSLT SVAWNPDGKR FVTGGQRGQF YQCDLDGNLL</p> <p>DSWEGVRVQC LWCLSDGKTV LASDTHQIR GYNFEDLTDR NIVQEDHPIM SFTISKNGRL</p> <p>ALLNVATQGV HLWDLQDRV LVRKYQGV TQG FYTIHSCFGG HNEDFIASGS EDHKVYIWHK</p> <p>RSELPIAELT GHTRTVNCVS WNPQIPSMMA SASDDGTVRI WGPAPFIDHQ NIEECSSMD S</p>

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Product Details

Grade: custom-made

Target Details

Target: WDR26

Alternative Name: WDR26 ([WDR26 Products](#))

Background: WD repeat-containing protein 26 (CUL4- and DDB1-associated WDR protein 2) (Myocardial ischemic preconditioning up-regulated protein 2),FUNCTION: G-beta-like protein involved in cell signal transduction (PubMed:15378603, PubMed:19446606, PubMed:22065575, PubMed:23625927, PubMed:27098453, PubMed:26895380). Acts as a negative regulator in MAPK signaling pathway (PubMed:15378603). Functions as a scaffolding protein to promote G beta:gamma-mediated PLCB2 plasma membrane translocation and subsequent activation in leukocytes (PubMed:22065575, PubMed:23625927). Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1 (PubMed:29911972). Acts as a negative regulator of the canonical Wnt signaling pathway through preventing ubiquitination of beta-catenin CTNNB1 by the beta-catenin destruction complex, thus negatively regulating CTNNB1 degradation (PubMed:27098453). Serves as a scaffold to coordinate PI3K/AKT pathway-driven cell growth and migration (PubMed:26895380). Protects cells from oxidative stress-induced apoptosis via the down-regulation of AP-1 transcriptional activity as well as by inhibiting cytochrome c release from mitochondria (PubMed:19446606). Protects also cells by promoting hypoxia-mediated autophagy and mitophagy (By similarity). {ECO:0000250|UniProtKB:F1LTR1, ECO:0000269|PubMed:15378603, ECO:0000269|PubMed:19446606, ECO:0000269|PubMed:23625927, ECO:0000269|PubMed:26895380, ECO:0000269|PubMed:27098453, ECO:0000269|PubMed:29911972}.

Molecular Weight: 72.1 kDa

UniProt: [Q9H7D7](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months