Datasheet for ABIN3085156

OTUD5 Protein (AA 1-571) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	OTUD5
Protein Characteristics:	AA 1-571
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This OTUD5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MTILPKKKPP PPDADPANEP PPPGPMPPAP RRGGGVGVGG GGTGVGGGDR DRDSGVVGAR PRASPPPQGP LPGPPGALHR WALAVPPGAV AGPRPQQASP PPCGGPGGPG GGPGDALGAA AAGVGAAGVV VGVGGAVGVG GCCSGPGHSK RRRQAPGVGA VGGGSPEREE VGAGYNSEDE YEAAAARIEA MDPATVEQQE HWFEKALRDK KGFIIKQMKE DGACLFRAVA DQVYGDQDMH EVVRKHCMDY LMKNADYFSN YVTEDFTTYI NRKRKNNCHG NHIEMQAMAE MYNRPVEVYQ YSTGTSAVEP INTFHGIHQN EDEPIRVSYH RNIHYNSVVN PNKATIGVGL GLPSFKPGFA EQSLMKNAIK TSEESWIEQQ MLEDKKRATD WEATNEAIEE QVARESYLQW LRDQEKQARQ VRGPSQPRKA SATCSSATAA ASSGLEEWTS RSPRQRSSAS SPEHPELHAE LGMKPPSPGT VLALAKPPSP CAPGTSSQFS AGADRATSPL VSLYPALECR ALIQQMSPSA FGLNDWDDDE ILASVLAVSQ QEYLDSMKKN KVHRDPPPDK S **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).
Grade:	custom-made

Target Details

Target:	OTUD5
Alternative Name:	OTUD5 (OTUD5 Products)
Background:	OTU domain-containing protein 5 (EC 3.4.19.12) (Deubiquitinating enzyme A) (DUBA),FUNCTION: Deubiquitinating enzyme that functions as a negative regulator of the innate immune system (PubMed:17991829, PubMed:22245969, PubMed:23827681, PubMed:33523931). Has peptidase activity towards 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (PubMed:22245969). Can also cleave 'Lys-11'-linked ubiquitin chains (in vitro) (PubMed:22245969). Acts via TRAF3 deubiquitination and subsequent suppression of type I interferon (IFN) production (PubMed:17991829). Controls neuroectodermal differentiation through cleaving 'Lys-48'-linked ubiquitin chains to counteract degradation of select chromatin regulators such as ARID1A, HDAC2 and HCF1 (PubMed:33523931). Acts as a positive regulator of mTORC1 and mTORC2 signaling following phosphorylation by MTOR: acts by mediating deubiquitination of BTRC, leading to its stability (PubMed:33110214). {ECO:0000269|PubMed:17991829, ECO:0000269|PubMed:22245969, ECO:0000269|PubMed:23827681, ECO:0000269|PubMed:33110214, ECO:0000269|PubMed:33523931}.
Molecular Weight:	60.6 kDa
UniProt:	Q96G74

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 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!

Application Details

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