

Datasheet for ABIN3125310

DPP9 Protein (AA 1-862) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	DPP9
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP9 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p> MCSGVSPVEQ VAAGDMDDTA ARFCVQKHSW DGLRSIIHGS RKSSGLIVSK APHDFQFVQK PDESGPHSHR LYYLGMPYGS RENSLLYSEI PKKVRKEALL LLSWKQMLDH FQATPHHGVY SREEELLRER KRLGVFGITS YDFHSEGLF LFQASNSLFH CRDGGKNGFM VSPMKPLEIK TQCSGPRMDP KICPADPAFF SFINNSDLWV ANIETGEERR LTFCHQGSAG VLDNPKSAGV ATFVIQEEFD RFTGCWWCPT ASWEGSEGLK TLRILYEEVD ESEVEVIHVP SPALEERKTD SYRYPRTGSK NPKIALKLAE LQTDHQQKIV SSCEKELVQP FSSLFPKVEY IARAGWTRDG KYAWAMFLDR PQQRLQLVLL PPALFIPAVE SEAQRQAAAR AVPKNVQPFV IYEEVTNVWI NVHDIFHPFP QAEGQQDFCF LRANECKTGF CHLYRVTVEL KTKDYDWTEP LSPTEDFKC PIKEEVALTS GEWEVLSRHG SKIWVNEQTK LVYFQGKTDT PLEHHLYVVS YESAGEIVRL TTLGFSHSCS MSQSFDMFVS HYSSVSTPPC VHVKYKLSGPD DDPLHKQPRF WASMMEAANC PPDYVPPEIF HFHTRADVQL YGMIYKPHTL QPGRKHPTVL FVYGGPQVQL VNNSFKGIKY </p>

LRLNTLASLG YAVVVIDGRG SCQRGLHFEG ALKNQMGQVE IEDQVEGLQY VAEKYGFIDL
SRVAIHGWSY GGFLSLMGLI HKPQVFKVAI AGAPVTWMA YDTGYTERYM DVPENNQQGY
EAGSVALHVE KLPNEPNRLL ILHGFLDENV HFFHTNFLVS QLIRAGKPYQ LQIYPNERHS
IRCRESGEHY EVTLLHFLQE HL

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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	DPP9
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Alternative Name:	Dpp9 (DPP9 Products)
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Background:	<p>Dipeptidyl peptidase 9 (DP9) (EC 3.4.14.5) (Dipeptidyl peptidase IX) (DPP IX) (Dipeptidyl peptidase-like protein 9) (DPLP9),FUNCTION: Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2 (PubMed:24223149). Acts as a key inhibitor of caspase-1-dependent monocyte and macrophage pyroptosis in resting cells by preventing activation of NLRP1 and CARD8 (PubMed:27820798, PubMed:29396289). Sequesters the cleaved C-terminal part of NLRP1 and CARD8, which respectively constitute the active part of the NLRP1 and CARD8 inflammasomes, in a ternary complex, thereby preventing their oligomerization and activation (By similarity). The dipeptidyl peptidase activity is required to suppress NLRP1 and CARD8, however, neither NLRP1 nor CARD8 are bona fide substrates of DPP9, suggesting the existence of substrate(s) required for NLRP1 and CARD8 inhibition (By similarity). {ECO:0000250 UniProtKB:Q86TI2, ECO:0000269 PubMed:24223149, ECO:0000269 PubMed:27820798, ECO:0000269 PubMed:29396289}.</p>
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Molecular Weight:	98.0 kDa
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UniProt:	Q8BVG4
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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.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>During lysate production, the cell wall and other cellular components that are not required for</p>
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Application Details

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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