Datasheet for ABIN7558925

DPP9 Protein (AA 1-862) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	DPP9
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP9 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Dpp9 Protein expressed in mammalian cells.
Sequence:	MCSGVSPVEQ VAAGDMDDTA ARFCVQKHSW DGLRSIIHGS RKSSGLIVSK APHDFQFVQK PDESGPHSHR LYYLGMPYGS RENSLLYSEI PKKVRKEALL LLSWKQMLDH FQATPHHGVY SREEELLRER KRLGVFGITS YDFHSESGLF LFQASNSLFH CRDGGKNGFM VSPMKPLEIK TQCSGPRMDP KICPADPAFF SFINNSDLWV ANIETGEERR LTFCHQGSAG VLDNPKSAGV ATFVIQEEFD RFTGCWWCPT ASWEGSEGLK TLRILYEEVD ESEVEVIHVP SPALEERKTD SYRYPRTGSK NPKIALKLAE LQTDHQGKIV SSCEKELVQP FSSLFPKVEY IARAGWTRDG KYAWAMFLDR PQQRLQLVLL PPALFIPAVE SEAQRQAAAR AVPKNVQPFV IYEEVTNVWI NVHDIFHPFP QAEGQQDFCF LRANECKTGF CHLYRVTVEL KTKDYDWTEP LSPTEDEFKC PIKEEVALTS GEWEVLSRHG SKIWVNEQTK LVYFQGTKDT PLEHHLYVVS YESAGEIVRL TTLGFSHSCS MSQSFDMFVS HYSSVSTPPC VHVYKLSGPD DDPLHKQPRF WASMMEAANC PPDYVPPEIF HFHTRADVQL YGMIYKPHTL QPGRKHPTVL FVYGGPQVQL VNNSFKGIKY LRLNTLASLG YAVVVIDGRG SCQRGLHFEG ALKNQMGQVE IEDQVEGLQY VAEKYGFIDL

Product Details

	SRVAIHGWSY GGFLSLMGLI HKPQVFKVAI AGAPVTVWMA YDTGYTERYM DVPENNQQGY EAGSVALHVE KLPNEPNRLL ILHGFLDENV HFFHTNFLVS QLIRAGKPYQ LQIYPNERHS IRCRESGEHY EVTLLHFLQE HL **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. 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:	DPP9
Alternative Name:	Dpp9 (DPP9 Products)
Background:	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

Target Details

	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}.
Molecular Weight:	98.0 kDa
UniProt:	Q8BVG4

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