Datasheet for ABIN7553718

DAGLA Protein (AA 1-1042) (His tag)

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Overview

Quantity:	1 mg
Target:	DAGLA
Protein Characteristics:	AA 1-1042
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAGLA protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DAGLA Protein expressed in mammalian cells.
Sequence:	MPGIVVFRRR WSVGSDDLVL PAIFLFLLHT TWFVILSVVL FGLVYNPHEA CSLNLVDHGR GYLGILLSCM IAEMAIIWLS MRGGILYTEP RDSMQYVLYV RLAILVIEFI YAIVGIVWLT QYYTSCNDLT AKNVTLGMVV CNWVVILSVC ITVLCVFDPT GRTFVKLRAT KRRQRNLRTY NLRHRLEEGQ ATSWSRRLKV FLCCTRTKDS QSDAYSEIAY LFAEFFRDLD IVPSDIIAGL VLLRQRQRAK RNAVLDEANN DILAFLSGMP VTRNTKYLDL KNSQEMLRYK EVCYYMLFAL AAYGWPMYLM RKPACGLCQL ARSCSCCLCP ARPRFAPGVT IEEDNCCGCN AIAIRRHFLD ENMTAVDIVY TSCHDAVYET PFYVAVDHDK KKVVISIRGT LSPKDALTDL TGDAERLPVE GHHGTWLGHK GMVLSAEYIK KKLEQEMVLS QAFGRDLGRG TKHYGLIVVG HSLGAGTAAI LSFLLRPQYP TLKCFAYSPP GGLLSEDAME YSKEFVTAVV LGKDLVPRIG LSQLEGFRRQ LLDVLQRSTK PKWRIIVGAT KCIPKSELPE EVEVTTLAST RLWTHPSDLT IALSASTPLY PPGRIIHVVH NHPAEQCCCC EQEEPTYFAI WGDNKAFNEV IISPAMLHEH LPYVVMEGLN KVLENYNKGK TALLSAAKVM VSPTEVDLTP ELIFQQQPLP TGPPMPTGLA LELPTADHRN

Product Details

	SSVRSKSQSE MSLEGFSEGR LLSPVVAAAA RQDPVELLLL STQERLAAEL QARRAPLATM ESLSDTESLY SFDSRRSSGF RSIRGSPSLH AVLERDEGHL FYIDPAIPEE NPSLSSRTEL LAADSLSKHS QDTQPLEAAL GSGGVTPERP PSAAANDEEE EVGGGGGGPA SRGELALHNG RLGDSPSPQV LEFAEFIDSL FNLDSKSSSF QDLYCMVVPE SPTSDYAEGP KSPSQQEILL RAQFEPNLVP KPPRLFAGSA DPSSGISLSP SFPLSSSGEL MDLTPTGLSS QECLAADKIR TSTPTGHGAS PAKQDELVIS AR **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:	DAGLA
Alternative Name:	DAGLA (DAGLA Products)
Background:	Diacylglycerol lipase-alpha (DAGL-alpha) (DGL-alpha) (EC 3.1.1.116) (Neural stem cell-derived dendrite regulator) (Sn1-specific diacylglycerol lipase alpha),FUNCTION: Serine hydrolase that hydrolyzes arachidonic acid-esterified diacylglycerols (DAGs) to produce the principal

Target Details

	endocannabinoid, 2-arachidonoylglycerol (2-AG) (PubMed:14610053, PubMed:26668358, PubMed:23502535). Preferentially hydrolyzes sn-1 fatty acids from diacylglycerols (DAG) that contain arachidonic acid (AA) esterified at the sn-2 position to biosynthesize 2-AG (PubMed:14610053, PubMed:26668358, PubMed:23502535). Has negligible activity against other lipids including monoacylglycerols and phospholipids (PubMed:14610053). Plays a key role in regulating 2-AG signaling in the central nervous system (CNS). Regulates 2-AG involved in retrograde suppression at central synapses. Supports axonal growth during development and adult neurogenesis. Plays a role for eCB signaling in the physiological regulation of anxiety and depressive behaviors. Regulates also neuroinflammatory responses in the brain, in particular, LPS-induced microglial activation (By similarity). {ECO:0000250|UniProtKB:Q6WQJ1, ECO:0000269|PubMed:14610053, ECO:0000269|PubMed:23502535, ECO:0000269|PubMed:26668358}.
Molecular Weight:	115.0 kDa
UniProt:	Q9Y4D2

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