Datasheet for ABIN7560030

DAGLB Protein (AA 1-669) (His tag)

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Overview

Quantity:	1 mg
Target:	DAGLB
Protein Characteristics:	AA 1-669
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAGLB protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Daglb Protein expressed in mammalian cells.
Sequence:	MPGMVLFGRR WSLASDDLVF PGSFELFLRV LWWIVSLTLY LTHRRRLDCP GGVLLSTYLI VLLVLLAVII CTVLAIVCVS MRGTICNPGP RKSMSKLLYI RLALFLPEMV WASLGAAWVA KGIQCDRTVV IGIIATVIVS WIVIAATMVT IIFVFDPLGG KMAPYPPCIP EHLDSNSSNR LLTGLKTAAK SVWETRVQFC CCCVGQDDNT RVAFSSTADL FSTYFSDTDL VPSDIAAGFT LLHQQQDNIS HSREPPEVVT HTPGQPQETE LDAEVENCHH YMPFAAAAYG WPLYIYRNPF TGLCRIGGDC CRARDIEYDA VEGDQHNCHF ASILKTTGLQ YRDFIHISFH DKVYELPFIV VLDHRKESVV VAVRGTMSLQ DVLTDLSAES ETLELGIELQ DCVAHKGIAQ AARYIHRRLV NDGILSQAFS VAPEYQLVLV GHSLGAGAAA LLAIMLRGAY PQVRAYAFSP PRGLLSKSLY EYSKDFVVSL ILGMDVIPRL SVTNMEDLKR RILRVIANCN KPKYKILLHG CWYGLFGGSP DNFPTELDEG TQGALTQPLL GEQTLLTRYS PGYCSSDSPL DSPTKYPTLY PPGRIIHLEE EGGSGRFGCC SAAQYRARWA HEAEFSKILI GPKMLIDHMP DVMIRALDRV LADRTACVSC PGQGGSSVP **Sequence without tag. The proposed Purification-Tag is based on experiences**

Product Details

	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:	DAGLB
Alternative Name:	Daglb (DAGLB Products)
Background:	Diacylglycerol lipase-beta (DAGL-beta) (DAGLbeta) (DGL-beta) (EC 3.1.1.116) (PUFA-specific triacylglycerol lipase) (EC 3.1.1.3) (Sn1-specific diacylglycerol lipase beta),FUNCTION: Lipase that catalyzes the hydrolysis of arachidonic acid (AA)-esterified diacylglycerols (DAGs) to produce the principal endocannabinoid, 2-arachidonoylglycerol (2-AG) which can be further cleaved by downstream enzymes to release arachidonic acid (AA) for cyclooxygenase (COX)-mediated eicosanoid production (PubMed:20159446, PubMed:20147530, PubMed:23103940). Preferentially hydrolyzes DAGs at the sn-1 position in a calcium-dependent manner and has negligible activity against other lipids including monoacylglycerols and phospholipids (By similarity). Plays a key role in the regulation of 2-AG and AA pools utilized by COX1/2 to

Target Details

	generate lipid mediators of macrophage and microglia inflammatory responses (PubMed:23103940, PubMed:26779719). Functions also as a polyunsaturated fatty acids-specific triacylglycerol lipase in macrophages (PubMed:31991095). Plays an important role to support the metabolic and signaling demands of macrophages (PubMed:31991095, PubMed:23103940). {ECO:0000250|UniProtKB:Q8NCG7, ECO:0000269|PubMed:20147530, ECO:0000269|PubMed:20159446, ECO:0000269|PubMed:23103940, ECO:0000269|PubMed:26779719, ECO:0000269|PubMed:31991095}.
Molecular Weight:	73.9 kDa
UniProt:	Q91WC9

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

