Datasheet for ABIN7560038

# DGKG Protein (AA 1-788) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | DGKG |
| Protein Characteristics: | AA 1-788 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This DGKG protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Dgkg Protein expressed in mammalian cells. |
| Sequence: | MSEEQWVSLS SEEFDQLQKY SEYSSKKIKD VLAEFNEGGS LRQYDPHKPI SYDVFKLFMR AYLEVDLPQP LSTHLFLAFS QKPRQETPDH PKEGASSSEP NVSDYNSDNA AKADEACAPD TESKTTKTQA PSKELEAAAP WEDPGALASS SDAPVVYLKD VVCYLSLMET GRPQDKLEFM FRLYDSDENG LLDQAEMDQI VSQMLHVAQY LEWDPTELRP ILKEMLQGMD YDKDGFVSLQ EWINGGMTTI PLLVLLGMDD SGSKGDGRHA WTLKHFKKPT YCNFCRAMLM GVGKQGLCCI YCKYTVHQRC VSKTIHGCVK TNSKAKRSGE VMQHAWVEGN SSVKCDRCHK SIKCYQSVTA RHCVWCRMTF HRKCELSTVC DGGELKDHIL LPTSICPVSG DRQGGKSDGS VAAKGELVTQ YKIIPSPGTH PLLVLVNPKS GGRQGERILR KFHYLLNPEQ VFNLDNGGPT PGLNFFHDTP DFRVLACGGD GTVGWILDCI DKANFTKHPP VAVLPLGTGN DLARCLRWGG GYEGGSLTKI LKEIEQSPLV MLDRWYLEVM PREEVENGDQ VPYNIMNNYF SIGVDASIAH RFHMMREKHP EKFNSRMKNK LWYFEFGTSE TFAATCKKLH DHIELECDGV EVDLSNIFLE GIAILNIPSM YGGTNLWGET KKNRAVIRES RKSVTDPKEL KCCVQDLSDQ LLEVVGLEGA MEMGQIYTGL |

## Product Details

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| | KSAGRRLAQC SSVTIRTNKL LPMQVDGEPW MQPQCTIKIT HKNQAPMMMG PPQKSSFFSL RRKSRSKD **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:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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

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| Target: | DGKG |
| Alternative Name: | Dgkg (DGKG Products) |
| Background: | Diacylglycerol kinase gamma (DAG kinase gamma) (EC 2.7.1.107) (88 kDa diacylglycerol kinase) (Diglyceride kinase gamma) (DGK-gamma),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:32033984). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (PubMed:32033984). Has no apparent specificity with regard to the acyl compositions of diacylglycerol (By |

## Target Details

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| | similarity). Specifically expressed in the cerebellum where it controls the level of diacylglycerol which in turn regulates the activity of protein kinase C gamma (PubMed:32033984). Through protein kinase C gamma, indirectly regulates the dendritic development of Purkinje cells, cerebellar long term depression and ultimately cerebellar motor coordination (PubMed:32033984). {ECO:0000250\|UniProtKB:P49619, ECO:0000269\|PubMed:32033984}. |
| Molecular Weight: | 88.5 kDa |
| UniProt: | Q91WG7 |

## Application Details

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| 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

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| 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 |