Datasheet for ABIN7557732

ELAVL4 Protein (AA 1-385) (His tag)

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Overview

Quantity:	1 mg
Target:	ELAVL4
Protein Characteristics:	AA 1-385
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ELAVL4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Elavl4 Protein expressed in mammalien cells.
Sequence:	MEWNGLKMII STMEPQVSNG PTSNTSNGPS SNNRNCPSPM QTGAATDDSK TNLIVNYLPQ NMTQEEFRSL FGSIGEIESC KLVRDKITGQ SLGYGFVNYI DPKDAEKAIN TLNGLRLQTK TIKVSYARPS SASIRDANLY VSGLPKTMTQ KELEQLFSQY GRIITSRILV DQVTGVSRGV GFIRFDKRIE AEEAIKGLNG QKPSGATEPI TVKFANNPSQ KSSQALLSQL YQSPNRRYPG PLHHQAQRFR LDNLLNMAYG VKRLMSGPVP PSACPPRFSP ITIDGMTSLV GMNIPGHTGT GWCIFVYNLS PDSDESVLWQ LFGPFGAVNN VKVIRDFNTN KCKGFGFVTM TNYDEAAMAI ASLNGYRLGD RVLQVSFKTN KAHKS **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.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	ELAVL4
Alternative Name:	Elavl4 (ELAVL4 Products)
Background:	ELAV-like protein 4 (Hu-antigen D) (HuD) (Paraneoplastic encephalomyelitis antigen HuD),FUNCTION: RNA-binding protein that is involved in the post-transcriptional regulation of mRNAs (PubMed:15764704, PubMed:16554442, PubMed:17035636, PubMed:20064466, PubMed:22387028, PubMed:23383270, PubMed:26305964, PubMed:28111162). Plays a role in the regulation of mRNA stability, alternative splicing and translation (PubMed:15764704, PubMed:23383270, PubMed:26305964, PubMed:28111162). Binds to AU-rich element (ARE) sequences in the 3' untranslated region (3'UTR) of target mRNAs, including GAP43, VEGF, FOS, CDKN1A and ACHE mRNA (By similarity). Many of the target mRNAs are coding for RNA-binding proteins, transcription factors and proteins involved in RNA processing and/or neuronal development and function (PubMed:26305964). By binding to the mRNA 3'UTR, decreases mRNA deadenylation and thereby contributes to the stabilization of mRNA molecules and their protection from decay (By similarity). Also binds to the polyadenylated (poly(A)) tail in the 3'UTR of mRNA, thereby increasing its affinity for mRNA binding (PubMed:20064466). Mainly plays a role in neuron-specific RNA processing by stabilization of mRNAs such as GAP43, ACHE and

mRNAs of other neuronal proteins, thereby contributing to the differentiation of neural progenitor cells, nervous system development, learning and memory mechanisms (PubMed:15764704, PubMed:16554442, PubMed:18218628, PubMed:23383270, PubMed:24599466, PubMed:25692578, PubMed:26305964, PubMed:28111162). Involved in the negative regulation of the proliferative activity of neuronal stem cells and in the positive regulation of neuronal differentiation of neural progenitor cells (PubMed:15764704). Promotes neuronal differentiation of neural stem/progenitor cells in the adult subventricular zone of the hippocampus by binding to and stabilizing SATB1 mRNA (PubMed:26305964). Binds and stabilizes MSI1 mRNA in neural stem cells (PubMed:16554442). Exhibits increased binding to ACHE mRNA during neuronal differentiation, thereby stabilizing ACHE mRNA and enhancing its expression (By similarity). Protects CDKN1A mRNA from decay by binding to its 3'-UTR (By similarity). May bind to APP and BACE1 mRNAS and the BACE1AS lncRNA and enhance their stabilization (By similarity). Plays a role in neurite outgrowth and in the establishment and maturation of dendritic arbors, thereby contributing to neocortical and hippocampal circuitry function (PubMed:24599466). Stabilizes GAP43 mRNA and protects it from decay during postembryonic development in the brain (PubMed:28111162). By promoting the stabilization of GAP43 mRNA, plays a role in NGF-mediated neurite outgrowth (By similarity). Binds to BDNF long 3'UTR mRNA, thereby leading to its stabilization and increased dendritic translation after activation of PKC (PubMed:23383270, PubMed:25692578). By increasing translation of BDNF after nerve injury, may contribute to nerve regeneration (PubMed:28111162). Acts as a stabilizing factor by binding to the 3'UTR of NOVA1 mRNA, thereby increasing its translation and enhancing its functional activity in neuron-specific splicing (PubMed:18218628). Stimulates translation of mRNA in a poly(A)- and cap-dependent manner, possibly by associating with the EIF4F cap-binding complex (PubMed:20064466). May also negatively regulate translation by binding to the 5'UTR of Ins2 mRNA, thereby repressing its translation (PubMed:22387028). Upon glucose stimulation, Ins2 mRNA is released from ELAVL4 and translational inhibition is abolished (PubMed:22387028). Also plays a role in the regulation of alternative splicing (PubMed:17035636). May regulate alternative splicing of CALCA pre-mRNA into Calcitonin and Calcitonin gene-related peptide 1 (CGRP) by competing with splicing regulator TIAR for binding to U-rich sequences of CALCA pre-mRNA (PubMed:17035636). {ECO:0000250|UniProtKB:O09032, ECO:0000250|UniProtKB:P26378, ECO:0000269|PubMed:15764704, ECO:0000269|PubMed:16554442, ECO:0000269|PubMed:17035636, ECO:0000269|PubMed:18218628, ECO:0000269|PubMed:20064466, ECO:0000269|PubMed:22387028, ECO:0000269|PubMed:23383270, ECO:0000269|PubMed:24599466, ECO:0000269|PubMed:25692578, ECO:0000269|PubMed:26305964,

Target Details

	ECO:0000269|PubMed:28111162}.
Molecular Weight:	42.4 kDa
UniProt:	Q61701

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.
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

