

Datasheet for ABIN7564338 NPAS4 Protein (AA 1-802) (His tag)



Overview

Quantity:	1 mg
Target:	NPAS4
Protein Characteristics:	AA 1-802
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPAS4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Npas4 Protein expressed in mammalian cells.
Sequence:	MYRSTKGASK ARRDQINAEI RNLKELLPLA EADKVRLSYL HIMSLACIYT RKGVFFAGGT
	PLAGPTGLLS AQELEDIVAA LPGFLLVFTA EGKLLYLSES VSEHLGHSMV DLVAQGDSIY
	DIIDPADHLT VRQQLTMPSA LDADRLFRCR FNTSKSLRRQ SSGNKLVLIR GRFHAHPPGA
	YWAGNPVFTA FCAPLEPRPR PGPGPGPGPG PASLFLAMFQ SRHAKDLALL DVSESVLIYL
	GFERSELLCK SWYGLLHPED LAQASSQHYR LLAESGDIQA EMVVRLQAKH GGWTWIYCML
	YSEGPEGPFT ANNYPISDTE AWSLRQQLNS EDTQAAYVLG TPAVLPSFSE NVFSQEQCSN
	PLFTPSLGTP RSASFPRAPE LGVISTPEEL PQPSKELDFS YLPFPARPEP SLQADLSKDL
	VCTPPYTPHQ PGGCAFLFSL HEPFQTHLPP PSSSLQEQLT PSTVTFSEQL TPSSATFPDP
	LTSSLQGQLT ESSARSFEDQ LTPCTSSFPD QLLPSTATFP EPLGSPAHEQ LTPPSTAFQA
	HLNSPSQTFP EQLSPNPTKT YFAQEGCSFL YEKLPPSPSS PGNGDCTLLA LAQLRGPLSV
	DVPLVPEGLL TPEASPVKQS FFHYTEKEQN EIDRLIQQIS QLAQGVDRPF SAEAGTGGLE
	PLGGLEPLNP NLSLSGAGPP VLSLDLKPWK CQELDFLVDP DNLFLEETPV EDIFMDLSTP

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	DPNGEWGSGD PEAEVPGGTL SPCNNLSPED HSFLEDLATY ETAFETGVST FPYEGFADEL
	HQLQSQVQDS FHEDGSGGEP TF 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:	NPAS4
Alternative Name:	Npas4 (NPAS4 Products)
Background:	Neuronal PAS domain-containing protein 4 (Neuronal PAS4) (HLH-PAS transcription factor
	NXF) (Limbic-enhanced PAS protein) (LE-PAS),FUNCTION: Transcription factor expressed in
	neurons of the brain that regulates the excitatory-inhibitory balance within neural circuits and is
	required for contextual memory in the hippocampus (PubMed:18815592, PubMed:22194569,
	PubMed:23029555, PubMed:24201284, PubMed:24855953). Plays a key role in the structural
	and functional plasticity of neurons (PubMed:23172225). Acts as an early-response
	transcription factor in both excitatory and inhibitory neurons, where it induces distinct but

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Format:	Liquid
Handling	
Restrictions:	For Research Use only
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.
Application Notes	We expect the protein to work for functional studies. As the protein has not been tosted for
Application Details	
UniProt:	Q8BGD7
Molecular Weight:	87.3 kDa
	EC0:0000269 PubMed:27238022}.
	EC0:0000269 PubMed:24855953, EC0:0000269 PubMed:25088421,
	ECO:0000269 PubMed:23172225, ECO:0000269 PubMed:24201284,
	EC0:0000269 PubMed:22194569, EC0:0000269 PubMed:23029555,
	ECO:0000269 PubMed:15363889, ECO:0000269 PubMed:18815592,
	(PubMed:14701734, PubMed:15363889). {ECO:0000269 PubMed:14701734,
	PubMed:15363889, PubMed:19284974). Can activate the CME (CNS midline enhancer) element
	dimerization with another bHLH protein, such as ARNT, ARNT2 or BMAL1 (PubMed:14701734,
	regulating expression of MDM2 (PubMed:25088421). Efficient DNA binding requires
	spine development in olfactory bulb granule cells in a sensory-experience-dependent manner by
	PubMed:23029555, PubMed:24201284, PubMed:27238022). Acts as a regulator of dendritic
	memory, response to stress and social behavior (PubMed:18815592, PubMed:22194569,
	of processes, such as short-term and long-term memory, acquisition of experience, fear
	circuits (PubMed:24855953). The excitatory and inhibitory balance in neurons affects a number
	somatostatin neurons, probably resulting in enhanced feedback inhibition within cortical
	neurons, regulates a distinct set of target genes that serve to increase excitatory input onto
	excitatory neurons (PubMed:18815592, PubMed:22194569, PubMed:24201284). In inhibitory
	on excitatory neurons, thereby promoting an increased number of inhibitory synapses on
	transcription of BDNF, which in turn controls the number of GABA-releasing synapses that form
	sensory experience (PubMed:24201284, PubMed:24855953). In excitatory neurons, activates
	specific to their function within a circuit, thereby facilitating appropriate circuit responses to
	that form on inhibitory and excitatory neurons to be modified by neuronal activity in a manner
	overlapping sets of late-response genes in these two types of neurons, allowing the synapses

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Handling

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