

Datasheet for ABIN7564519
BHLHE22 Protein (AA 1-355) (His tag)



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Overview

Quantity:	1 mg
Target:	BHLHE22
Protein Characteristics:	AA 1-355
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BHLHE22 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Bhlhe22 Protein expressed in mammalien cells.
Sequence:	MERGLHLGAA AASEDDLFLH KSLGTSAKR LEAAFRSTPP GMDLSLAPPT RERPASSSSP LGCPEPADPE GAGLRLPPPG GGGGASGGGG GVSVPGLLVG SAGVGGEPSSL SSLPAGAALC LKYGESAGRG SVAESSGGEQ SPDDSDGLC ELVLRAGGPD PRASPRAGGG SAKVAEGCSN AHLHGGGLP PGGPTSGGGS GGGGGSSKK SKEQKALRLN INARERRRMH DLNDALDELRL AVIPYAHSPS VRKLSKIATL LLAKNYILMQ AQALEEMRRL VAYLNQGQAI SAASLPSSAA AAAAAALHP ALGAYEQAAG YPFSAGLPPA ASCPEKCALF NSVSSSLCKQ CTEKP 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 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, Western Blot
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Grade:	custom-made
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Target Details

Target:	BHLHE22
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Alternative Name:	Bhlhe22 (BHLHE22 Products)
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Background:	<p>Class E basic helix-loop-helix protein 22 (bHLHe22) (Class B basic helix-loop-helix protein 5) (bHLHb5) (Protein BETA3),FUNCTION: Inhibits DNA binding of TCF3/E47 homodimers and TCF3 (E47)/NEUROD1 heterodimers and acts as a strong repressor of Neurod1 and Myod-responsive genes, probably by heterodimerization with class a basic helix-loop-helix factors. Despite the presence of an intact basic domain, does not bind to DNA (By similarity). In the brain, may function as an area-specific transcription factor that regulates the postmitotic acquisition of area identities and elucidate the genetic hierarchy between progenitors and postmitotic neurons driving neocortical arealization. May be required for the survival of a specific population of inhibitory neurons in the superficial laminae of the spinal cord dorsal horn that may regulate pruritis. Seems to play a crucial role in the retinogenesis, in the specification of amacrine and bipolar subtypes. Forms with PRDM8 a transcriptional repressor complex controlling genes involved in neural development and neuronal differentiation (PubMed:22284184). {ECO:0000250, ECO:0000269 PubMed:17092954, ECO:0000269 PubMed:18957218, ECO:0000269 PubMed:20346763,</p>
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Target Details

ECO:0000269|PubMed:22284184}.

Molecular Weight: 35.2 kDa

UniProt: [Q8C6A8](#)

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