

Datasheet for ABIN7556865
ASCL1 Protein (AA 1-231) (His tag)



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Overview

Quantity:	1 mg
Target:	ASCL1
Protein Characteristics:	AA 1-231
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASCL1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ascl1 Protein expressed in mammalian cells.
Sequence:	MESSGKMESG AGQQPQQPPQP FLPPAACFFA TAAAAAAAAA AAAQSAQQQQ PQAPPQQAPQ LSPVADSQPS GGGHKSAKQ VKRQRSSSPE LMRCKRRLNF SGFGYSLPQQ QPAAVARRNE RERNRVKLVN LGFATLREHV PNGAANKKMS KVETLRSVAE YIRALQQLLD EHDVSAAFQ AGVLSPTISP NYSNDLNSMA GSPVSSYSSD EGSYDPLSPE EQELLDFTNW F 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: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- 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:	ASCL1
Alternative Name:	Ascl1 (ASCL1 Products)
Background:	<p>Achaete-scute homolog 1 (ASH-1) (mASH-1) (mASH1),FUNCTION: Transcription factor that plays a key role in neuronal differentiation: acts as a pioneer transcription factor, accessing closed chromatin to allow other factors to bind and activate neural pathways (PubMed:24243019). Directly binds the E box motif (5'-CANNTG-3') on promoters and promotes transcription of neuronal genes (PubMed:20107439, PubMed:24243019, PubMed:27281220). The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro (PubMed:20107439, PubMed:24243019, PubMed:27281220). Plays a role at early stages of development of specific neural lineages in most regions of the CNS, and of several lineages in the PNS (PubMed:8217843). Essential for the generation of olfactory and autonomic neurons (PubMed:8221886). Acts synergistically with FOXN4 to specify the identity of V2b neurons rather than V2a from bipotential p2 progenitors during spinal cord neurogenesis, probably through DLL4-NOTCH signaling activation (PubMed:16020526, PubMed:17728344). Involved in the regulation of neuroendocrine cell development in the glandular stomach (PubMed:18173746). {ECO:0000269 PubMed:16020526, ECO:0000269 PubMed:17728344,</p>

Target Details

ECO:0000269|PubMed:18173746, ECO:0000269|PubMed:20107439,
ECO:0000269|PubMed:24243019, ECO:0000269|PubMed:27281220,
ECO:0000269|PubMed:8217843, ECO:0000269|PubMed:8221886}.

Molecular Weight: 24.7 kDa

UniProt: [Q02067](#)

Pathways: [Dopaminergic Neurogenesis](#)

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