

ASCL1 Protein, Human, Recombinant (His)

General Information

Synonyms:	ASH-1;Achaete-scute homolog 1;Class A basic helix-loop-helix protein 46 (bHLHa46);hASH1;ASCL1;BHLHA46;ASH1
Protein Construction:	1-236 aa
Species:	Human
Expression Host:	E. coli
Accession:	P50553
Molecular Weight:	29.6 kDa (predicted)
AA Sequence:	MESAKMESGGAGQQPQPQPQPFLPPAACFFATAAAAAAAAAAAAAAAAAQSAQQQQQQQQQQQAPQLR PAADGQPSGGGHKSAPKQVKRQRSSSPELMRCKRRLNFGYSLPQQQPAAVARRNERERNRVKLVNLG FATLREHVPNGAANKKMSKVETLRSAYEYIRALQQLLDEHDAVSAAFQAGVLSPTISPNYSNDLNSMAGSPV SSYSSDEGSYDPLSPEEQELLDFTNWF

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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. Directly binds the E box motif (5'-CANNTG-3') on promoters and promotes transcription of neuronal genes. 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. 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. Essential for the generation of olfactory and autonomic neurons. 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. Involved in the regulation of neuroendocrine cell development in the glandular stomach.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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