

ASH2L Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	ASH2L1;ASH2L;ASH2-like protein;Set1/Ash2 histone methyltransferase complex subunit ASH2
Protein Construction:	1-534 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9UBL3-3
Molecular Weight:	76.2 kDa (predicted)
AA Sequence:	MDTQAGSVDEENGRQLGEVELQCGICTKWFTADTFGIDTSSCLPFMTNYSFHCNVCVHSGNTYFLRKQANLK EMCLSALANLTWQSRTQDEHPKTMFSKDKDIIPFIDKYWECMTTRQRP GKMTWPNNIVKTMSKERDVFLVKE HPDPGSKDPEEDYPKFGLLDQDLNIGPAYDNQKQSSAVSTSGNLNGGIAAGSSGKGRGAKRKQDGGTT GTTKARSDPLFSAQRLPPHGYPLEHPFNKDG YRYILAEPDPHAPDPEKLELDCWAGKPIPGDLYRACL YERV LLALHDRAPQLKISDDRLTVVGEKGYSMVRASHGVRKGAWYFEITVDEMPPDTAARLGWSQPLGNLQAPLG YDKFSYSWRSKKGTKFHQSIGKHYSSGYGQGDV LGFYINLPEDTETAKSLPDTYKDKALIKFKSYLYFE EKDFV DKAEKSLKQTPHSEIIFYKNGVNQGVAYKDIFEGVYFPAISLYKCTVSINFGPCFKYPPKDLTYRPMSDMGWG AVVEHTLADVLYHVETEV DGRRSPPWEP

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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

Transcriptional regulator. Component or associated component of some histone methyltransferase complexes which regulates transcription through recruitment of those complexes to gene promoters. Component of the Set1/Ash2 histone methyltransferase (HMT) complex, a complex that specifically methylates 'Lys-4' of histone H3, but not if the neighboring 'Lys-9' residue is already methylated. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. May play a role in hematopoiesis. In association with RBBP5 and WDR5, stimulates the histone methyltransferase activities of KMT2A, KMT2B, KMT2C, KMT2D, SETD1A and SETD1B.

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