

Recombinant Human ATAD2, His&FLAG-tagged

Cat. No. ASH1L-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASH1L corresponding to amino acids 2407-2579 that contains the bromodomain sequences of ASH1L (accession number NP_060959.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag.
Species	Human
Source	E.coli
ProteinLength	2407-2579 a.a.
Description	ASH1L is a member of the Trithorax group of transcriptional activators. The protein contains four AT hooks, a SET domain, a PHD-finger motif, and a bromodomain. The bromodomain functions as a "reader" of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. ASH1L is localized to the nucleus and also to cell-cell tight junctions where it is hypothesized to function in adhesion-mediated signaling. ASH1L functions in methylation of H3K4 and regulation of expression of HOX genes and may possess methyltransferase activity directed at H3K36. ASH1L has also been implicated in facioscapulohumeral muscular dystrophy.
Form	25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol.
Molecular Mass	25.6 kDa
Applications	Binding assays, inhibitor screening, and selectivity profiling.

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Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	6.7 mg/ml
GENE INFORMATION	
Gene Name	ASH1L ash1 (absent, small, or homeotic)-like (Drosophila) [Homo sapiens]
Official Symbol	ASH1L
Synonyms	ASH1L; ash1 (absent, small, or homeotic)-like (Drosophila); histone-lysine N-methyltransferase ASH1L; ASH1; ASH1L1; huASH1; KMT2H; ASH1-like protein; lysine N-methyltransferase 2H; absent small and homeotic disks protein 1 homolog; probable histone-lysine N-methyltransferase ASH1L; FLJ10504; KIAA1420;
Gene ID	55870
mRNA Refseq	NM_018489
Protein Refseq	NP_060959
MIM	607999
UniProt ID	Q9NR48
Chromosome Location	1q22
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved

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biosystem; Tight junction, organism-specific biosystem; Tight junction, conserved biosystem;

Function

DNA binding; histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; transferase activity; zinc ion binding;

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