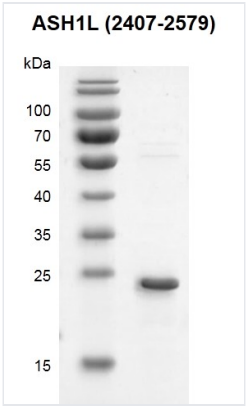
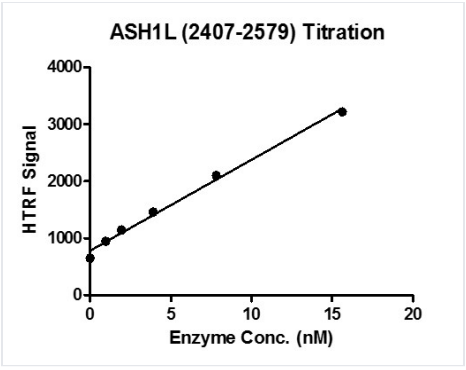
# ASH1L Recombinant Protein

## PRODUCT OVERVIEW

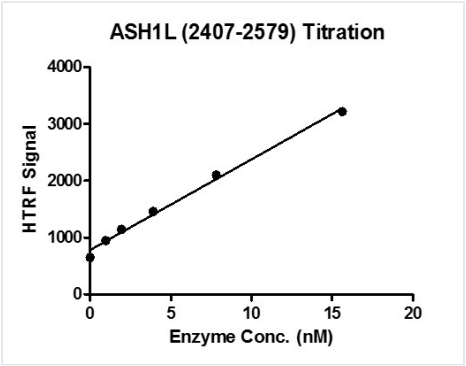
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|---|---|
| **Product Name** | ASH1L, Recombinant Protein |
| **Full Product Name** | Recombinant ASH1L (2407-2579) protein |
| **Product Gene Name** | ASH1L recombinant protein |
| **Product Synonym Names** | ASH1; KMT2H; ASH1L1 |
| **Host** | E Coli |
| **Form/Format** | Recombinant ASH1L (2407-2579) protein was expressed in E Coli cells and is supplied in 25mM Tris-HCl pH8.0, 300mM NaCl, and 10% glycerol. |
| **Preparation and Storage** | Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.<br>Shipping Temp: Dry Ice |
| **Molecular Weight** | 332,211 Da |
| **Protein Species** | Human |
| **Tag** | DYKDDDDK-Tag, His-Tag |
| **Notes** | Recombinant ASH1L (2407-2579) is suitable for use in binding assays, inhibitor screening, and selectivity profiling. |
| **Dry Ice Shipment** | Extra charge fee may add to your shipping cost as dry ice is required to ship this product. |
| **Product Categories/Family for ASH1L recombinant protein** | Recombinant Proteins; Bromodomain |
| **Related Product Information for ASH1L recombinant protein** | Short Description: The peptide 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 DYKDDDDK tag with an observed molecular weight of 25.6 kDa. 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. Recombinant ASH1L (2407-2579) can be used in binding assays and inhibitor screening.<br><br>Background: 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. |
| **Other Notes** | Small volumes of ASH1L recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for ASH1L purchase** | MBS388159 is a recombinant protein targeting ASH1L. Also known as Recombinant ASH1L (2407-2579) protein. Host: E Coli. |




**SDS-Page of ASH1L recombinant protein**
Recombinant ASH1L (2407-2579) protein gel. ASH1L (2407-2579) protein was run on a 12% SDS-PAGE gel and stained with Coomassie Blue. MW: 23.2 kDa Purity: > 85%




**Testing Data of ASH1L recombinant protein**
HTRF assay for ASH1L (2407-2579) activity 3 uM histone H4K5/8/12/16(ac4) peptide was incubated with different concentrations of ASH1L (2407-2579) protein in a 10 ul reaction system containing 50 mM HEPES-NaOH pH 7.4, 0.1% BSA for 1 hour, then 10 ul DYKDDDDK antibody and SA-XL665 mixture (each 1:100 dilution in the reaction buffer) was added to each reaction system and incubated for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.




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## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASH1L. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 110349787 |
| **NCBI GeneID** | 55870 |
| **NCBI Accession #** | NP_060959.2 |
| **UniProt Secondary Accession #** | Q59GP1; Q5T714; Q5T715; Q9P2C7 |
| **UniProt Related Accession #** | Q9NR48 |
| **GenBank Nucleotide #** | NM_018489 |
| **NCBI Official Full Name** | Homo sapiens ash1 (absent, small, or homeotic)-like (Drosophila) (ASH1L), mRNA |
| **NCBI Official Synonym Full Names** | ash1 (absent, small, or homeotic)-like (Drosophila) |
| **NCBI Official Symbol** | ASH1L |
| **NCBI Official Synonym Symbols** | ASH1; KMT2H; ASH1L1 |
| **Protein Family** | Histone-lysine N-methyltransferase |

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| **NCBI Protein Information** | histone-lysine N-methyltransferase ASH1L; ASH1-like protein; absent small and homeotic disks protein 1 homolog; lysine N-methyltransferase 2H; probable histone-lysine N-methyltransferase ASH1L |
| **NCBI Summary for ASH1L** | This gene encodes 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. It is localized to many small speckles in the nucleus, and also to cell-cell tight junctions. [provided by RefSeq, Jul 2008] |
| **Research Articles on ASH1L** | **1.** Our results uncover a novel regulatory cascade orchestrated by Ash1l with RAR and provide insights into mechanisms underlying the establishment of the transcriptional activation that counteracts Polycomb silencing |
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