# Active Recombinant Human KDM1A protein, GST-tagged

**Cat. No.** KDM1A-15H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human KDM1A(158–end) fused with GST tag at N-terminal was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 158-end a.a. |
| **Description** | This gene encodes a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. Alternative splicing results in multiple transcript variants. |
| **Form** | 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 3 mM DTT, 20% glycerol, and 16 mM glutathione |
| **Bio-activity** | ≥0.50 pmole/min/μg |
| **Molecular Mass** | 104 kDa |
| **Purity** | ≥67% |
| **Applications** | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |

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| **Storage** | At least 6 months at –80 centigrade. Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%). |
| **Concentration** | 3.0 mg/ml |

## GENE INFORMATION

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| **Gene Name** | KDM1A lysine (K)-specific demethylase 1A [ Homo sapiens ] |
| **Official Symbol** | KDM1A |
| **Synonyms** | KDM1A; lysine (K)-specific demethylase 1A; amine oxidase (flavin containing) domain 2 , AOF2, KDM1, lysine (K) specific demethylase 1; lysine-specific histone demethylase 1A; BHC110; KIAA0601; LSD1; lysine (K)-specific demethylase 1; BRAF35-HDAC complex protein BHC110; lysine-specific histone demethylase 1; amine oxidase (flavin containing) domain 2; FAD-binding protein BRAF35-HDAC complex, 110 kDa subunit; flavin-containing amine oxidase domain-containing protein 2; AOF2; KDM1; |
| **Gene ID** | 23028 |
| **mRNA Refseq** | NM_015013 |
| **Protein Refseq** | NP_055828 |
| **MIM** | 609132 |
| **UniProt ID** | O60341 |
| **Chromosome Location** | 1p36.12 |

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| **Pathway** | Coregulation of Androgen receptor activity, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; |
| **Function** | MRF binding; androgen receptor binding; chromatin binding; demethylase activity; enzyme binding; flavin adenine dinucleotide binding; histone demethylase activity; histone demethylase activity (H3-K4 specific); histone demethylase activity (H3-K9 specific); histone demethylase activity (H3-dimethyl-K4 specific); ligand-dependent nuclear receptor transcription coactivator activity |

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