

Active Recombinant Human SETD2 protein, GST-tagged

Cat. No. SETD2-199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SETD2(1425-1717 aa) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1425-1717 a.a.
Description	As a member of the mixed lineage leukemia (MLL) family of histone methyltransferase, SETD2 specifically tri-methylates 'Lys-36' of histone H3 (H3K36me3) using dimethylated 'Lys-36' (H3K36me2) as substrate. The main enzyme generating H3K36me3, a specific tag for epigenetic transcriptional activation.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	250 nmol/min/mg
Molecular Mass	61 kDa
Purity	>70%
Applications	Methyltransferase Assay

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Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	SETD2 SET domain containing 2 [Homo sapiens]
Official Symbol	SETD2
Synonyms	SETD2; SET domain containing 2; histone-lysine N-methyltransferase SETD2; FLJ23184; HIF 1; HYPB; KIAA1732; KMT3A; huntingtin yeast partner B; lysine N-methyltransferase 3A; huntingtin interacting protein 1; huntingtin-interacting protein B; SET2; HIF-1; H
Gene ID	29072
mRNA Refseq	NM_014159
Protein Refseq	NP_054878
MIM	612778
UniProt ID	Q9BYW2
Chromosome Location	3p21.31

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Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;
Function	DNA binding; histone-lysine N-methyltransferase activity; methyltransferase activity; oxidoreductase activity; protein binding; transferase activity; transition metal ion binding;
	