Active Recombinant Human SETD2 Protein

Cat. No. SETD2-27850TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 915-1211of Human KMT3A / HYPB / HIF-1, with N-terminal proprietary tag, 59.7 kDa.
Species	Human
Source	E.coli
ProteinLength	915-1211 a.a.
Description	Huntingtons disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs. This protein is a histone methyltransferase that is specific for lysine-36 of histone H3, and methylation of this residue is associated with active chromatin. This protein also contains a novel transcriptional activation domain and has been found associated with hyperphosphorylated RNA polymerase II.
Biological activity	Specific activity assay conditions: Assay conditions: 80 µlreaction mix (50 mM TRIS pH8.8, 5 mM MgCl2, 4 mM DTT, 20 µM substrate (histone H3), 12.5 µM S-adenosylhomocysteine, and 0-2.5 µM Set2) incubate for 1 hr at 37oC. Add fluorescently labeled tracer a
Form	Liquid

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Storage buffer	Preservative: NoneConstituents: 30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

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;
Gene ID	29072
mRNA Refseq	NM_014159
Protein Refseq	NP_054878
MIM	612778
Uniprot ID	Q9BYW2
Chromosome Location	3p21.31
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;
Function	DNA binding; histone-lysine N-methyltransferase activity; methyltransferase activity; oxidoreductase activity; transferase activity;

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