

Recombinant Human SETD2, GST-tagged

Cat. No. SETD2-461H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SETD2 (amino acids 1418-1714), fused with with N-terminal GST tag, was expressed in an E. coli expression system.
Species	Human
Source	E.coli
ProteinLength	1418-1714 a.a.
Description	Huntington's 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.
Form	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 16 mM glutathione, 20% glycerol and 3 mM DTT.
Molecular Mass	60.9 kDa
Purity	≥ 70%

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Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Stability	>6 months at –80°C
GENE INFORMATION	
Gene Name	SETD2 SET domain containing 2 [Homo sapiens (human)]
Official Symbol	SETD2
Synonyms	SETD2; HYPB; SET2; HIF-1; HIP-1; KMT3A; HBP231; HSPC069; p231HBP; SET domain containing 2; histone-lysine N-methyltransferase SETD2; huntingtin yeast partner B; lysine N-methyltransferase 3A; huntingtin interacting protein 1; huntingtin-interacting protein B; NP_054878.5; EC 2.1.1.43
Gene ID	29072
mRNA Refseq	NM_014159
Protein Refseq	NP_054878
MIM	612778
UniProt ID	Q9BYW2
Chromosome Location	3p21.31
Pathway	Lysine degradation
Function	histone-lysine N-methyltransferase activity; protein binding

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