Active Recombinant Human OLIG2, GST-tagged

Cat. No. OLIG2-28318TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human OLIG2 full-length ORF (AAH36245.1, 1 a.a. - 323 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a basic helix-loop-helix transcription factor which is expressed in oligodendroglial tumors of the brain. The protein is an essential regulator of ventral neuroectodermal progenitor cell fate. The gene is involved in a chromosomal translocation t(14;21)(q11.2;q22) associated with T-cell acute lymphoblastic leukemia. Its chromosomal location is within a region of chromosome 21 which has been suggested to play a role in learning deficits associated with Down syndrome.
Form	Liquid
Bio-activity	Fully biologically active when compared to standard. The ED50 determined by a cell proliferation assay using murine NR6R/3T3 cells is less than 1.8 ng/ml, corresponding to a specific activity of 5.6 × 10~5 IU/mg
Molecular Mass	58.8 kDa
AA Sequence	MDSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSDCPPELSAELR GAMGSAGAHPVDKLGGSGF KSSSSSTSSSTSSAAASSTKKDKKQMTEPELQQLRL KINSRERKRMHDLNIAMDGLREVMPYAHGPSVRKLSKIA TLLLARNYILMLTNSLEE

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	MKRLVSEIYGGHHAGFHPSACGGLAHSAPLPAATAHPAAAAHAAHHPAVHHPILPP A AAAAAAAAAAAAVSSASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGGS GASGGFQHWGGMPCPCSMCQV PPPHHHVSAMGAGSLPRLTSDAK
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	OLIG2 oligodendrocyte lineage transcription factor 2 [Homo sapiens]
Official Symbol	OLIG2
Synonyms	OLIG2; oligodendrocyte lineage transcription factor 2; oligodendrocyte transcription factor 2; protein kinase C-binding protein 2; class B basic helix-loop-helix protein 1; class E basic helix-loop-helix protein 19; human protein kinase C-binding protein RACK17; basic domain, helix-loop-helix protein, class B, 1; oligodendrocyte-specific bHLH transcription factor 2; BHLHB1; OLIGO2; RACK17; PRKCBP2; bHLHe19;
Gene ID	10215
mRNA Refseq	NM_005806
Protein Refseq	NP_005797
Function	DNA binding; HMG box domain binding; protein homodimerization activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity;

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