

Active Recombinant Full Length Human OLIG2 Protein, GST-tagged

Cat. No. OLIG2-353HF **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	In Vitro Cell Free System
ProteinLength	1 a.a. - 323 a.a.
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MDSDASLVSS RPSSPEPDDL FLPARSKGSS GSAFTGGTVS SSTPSDCPPE
 LSAELRGAMG SAGAHVPDKL GSGGFKSSSS STSSSTSSAA ASSTKKDKKQ
 MTEPELQQLR LKINSRERKR MHDLNIAMDG LREVMPYAHG PSVRKLSKIA
 TLLLARNYIL MLTNSLEEMK RLVSEIYGGH HAGFHPSACG GLAHSAPLPA
 ATAHPAAAAH AAHHPAVHHP ILPPAAAAAA AAAAAAAVSS ASLPGSGLPS
 VGSIRPPHGL LKSPSAAAAA PLGGGGGGSG ASGGFQHWGG MPCPCSMCQV
 PPPHHHSAM GAGSLPRLTS DAK

Storage

Store at -80 centigrade. 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

MIM

606386

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UniProt ID

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