Recombinant human BEND6 protein

Catalog Number: ATGP2441

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-279aa

UniProt No.
Q5SZJ8

NCBI Accession No.
NP_689944

Alternative Names
BEN domain-containing protein 6, bA203B9.1, C6orf65

PRODUCT SPECIFICATION

Molecular Weight
33.6 kDa (302aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
BEND6, as known as BEN domain-containing protein 6, is a neural BEN-solo factor that shares many functional attributes with Drosophila Insensitive, a co-repressor for the Drosophila CSL factor. This protein binds the mammalian CSL protein CBF1 and antagonizes Notch-dependent target activation. In addition, its association with Notch- and CBF1-regulated enhancers is promoted by CBF1 and antagonized by activated Notch. In utero electroporation experiments showed that ectopic BEND6 inhibited Notch-mediated self-renewal of neocortical neural stem cells and promoted neurogenesis. Recombinant human BEND6 protein, fused to His-tag at N-

terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

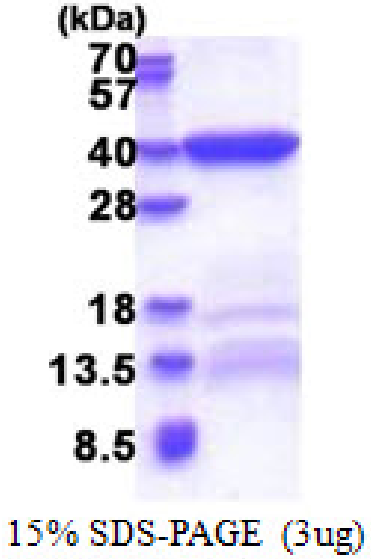
MGSSHHHHHH SSGLVPRGSH MGSMQKIVQT DEITNTQAFR KGKRKRTETM DSENANSDMD KGQRDPYSGN AFLPGESSSE DEEPLAELSK EELCAKIKSL KEKLTNTRKE NSRLRQSLVM LQVLPQAVTQ FEELVGMAEA LLKGGGTMST SASTLWRATN NSSPDSFAST CSNSNSNSSS PVSLKPEEEH QTDEKQFQIE KWQIARCNKS KPQKFINDLM QVLYTNEYMA THSLTGAKSS TSRDKAVKPA MNQNEVQEII GVTKQLFPNT DDVSIRRMIG QKLNNCTKKP NLSKNLNSQD IK

General References

Dai Q. et al. (2013) Development.. 140:1892-1902
Chu J. et al. (2004) J Biol Chem. 279:12337-12345.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.