

Recombinant human BAIAP2 protein

Catalog Number: ATGP1373

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-522aa

UniProt No.

Q9UQB8

NCBI Accession No.

AAH14020.1

Alternative Names

BAI1-associated protein 2, BAP2, IRSP53

PRODUCT SPECIFICATION

Molecular Weight

58.4 kDa (530aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM MES (pH 5.0) containing , 30% glycerol, 0.2M NaCl

Purity

> 85% 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

BAI1-associated protein 2, also known as BAIAP2, is a ubiquitous regulator of the actin cytoskeleton. It mediates filopodia formation under the control of Rho-family GTPases. BAIAP2 is expressed in the cytoplasm and links small membrane-bound G-proteins to cytoplasmic effector proteins. This protein functions as an insulin receptor tyrosine kinase substrate and suggests a role for insulin in the central nervous system. It has also been identified as interacting with the dentatorubral-pallidoluysian atrophy gene, which is associated with an autosomal dominant neurodegenerative disease. Recombinant human BAIAP2 protein, fused to His-tag at C-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

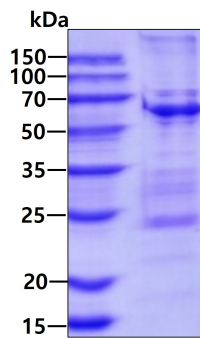
MLSLRSEEMH RLTENYKTI MEQFNPSLRN FIAMGKNYEK ALAGVTYAAK GYFDALVKMG ELASESQGSK ELGDVLFQMA
EVHRQIQNQL EEMLKSFHNE LLTQLEQKVE LDSRYLSAAL KKYQTEQRSK GDALDKCQAE LKCLRKKSQG SKNPQKYSKD
ELQYIDAISN KQGELENYVS DGYKTALTEE RRRFCFLVEK QCAVAKNSAA YHSGKELLA QKLPLWQQAC ADPSKIPERA
VQLMQQVASN GATLPSALSA SKSNLVISDP IPGAKPLPVP PELAPFVGRM SAQESTPIMN GVTGPDGEDY SPWADRKAAQ
PKSLPQQSQ SKLSDSYSNT LPVRKSVTPK NSYATTAENK TLPSSSMAA GLERNRMRV KAIFSHAAGD NSTLLSFKEG
DLITLLVPEA RDGWHYGESE KTKMRGWFPF SYTRVLDSG SDRLHMSLQQ GKSSSTGNLL DKDDLAIPPP DYGAASRAFP
AQTASGFKQR PYSVAVPAFS QGLDDYGARS MSSGSGTLVS TV<VEHHHHHH>

General References

Funato Y., et al. (2004) Cancer Res. 64:5237-5244.
Choi J., et al. (2005) J Neurosci. 25:869-879.

DATA

SDS-PAGE



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