Recombinant human BCAS2 protein

Catalog Number: ATGP0914

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-225aa

UniProt No.
O75934

NCBI Accession No.
NP_005863

Alternative Names
pre-mRNA-splicing factor SPF27, DAM1, Snt307, SPF27

PRODUCT SPECIFICATION

Molecular Weight
30.3 kDa (261aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 5mM DTT, 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
BCAS2, also known as pre-mRNA-splicing factor SPF27, is a ubiquitously expressed nuclear protein that was originally identified as being overexpressed in various breast cancer cell lines. It is now known to be a component of the spliceosome, participating in the removal of introns from mRNA precursors. BCAS2 specifically interacts (in a ligand-independent manner) with TRbeta (thyroid hormone receptor beta), ERalpha (estrogen receptor alpha), ERbeta, PR (progesterone receptor) and PPARgamma (peroxisome proliferator-activated receptor gamma). This protein functions as an ER co-activator and is capable of enhancing ER-mediated

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transcription. This suggests that BCAS2 is involved in the development of breast cancer. Recombinant human BCAS2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

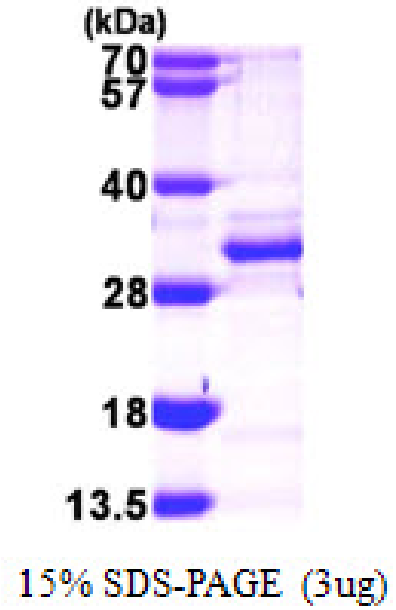
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAGT GLVAGEVVVD ALPYFDQGYE APGVREAAAA LVEEETRRYR PTKNYLSYLT APDYSAFETD IMRNEFERLA ARQPIELLSM KRYELPAPSS GQKNDITAWQ ECVNNSMAQL EHQAVRIENL ELMSQHGCNA WKVYNENLVH MIEHAQKELQ KLRKHIQDLN WQRKNMQLTA GSKLREMESN WVSLVSKNYE IERTIVQLEN EIYQIKQQHG EANKENIRQD F

General References

Qi C., et al. (2005) Biochem Biophys Res Commun. 328(2):393-8.
Kuo PC., et al. (2009) Cancer Res. 69(23):8877-85.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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