



LD Biopharma, Inc.
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<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human BCAS2 Protein
Catalog Number: hRP-0854
Manufacturer: LD Biopharma, Inc.

Introduction

The sequence of human breast cancer amplified sequence 2 (BCAS2) is the same as DAM1 (*Mus musculus* DNA amplified in mammary carcinoma mRNA; GenBank accession no. AB020623) deposited atNCBI data-base. Human *BCAS2* gene maps to chromosome 1p13.3-21 region, which encodes 26 kDa protein. BCAS2 was recently characterized as a transcriptional cofactor that enhances estrogen receptor-mediated gene expression. Recent data also demonstrated that BCAS2 is negative regulator of p53 protein and hence a potential molecular target for cancer therapy.

Full-length human BCAS2 (225 aa) gene was constructed with 15 aa N-terminal T7 tag and expressed in *E.coli* as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: BCAS2 (DAM1; Snt309; SPF27)
Accession Number: NP_005863
Species: Human
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Kuo,P.C., et al., *Breast cancer amplified sequence 2, a novel negative regulator of the p53 tumor suppressor*. Cancer Res. 69 (23), 8877-8885 (2009)

Qi,C., et al., *Potential of estrogen receptor transcriptional activity by breast cancer*



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amplified sequence 2. Biochem. Biophys. Res. Commun. 328 (2), 393-398 (2005)

Applications

1. May be used for in vitro wild-type P53 mediated cancer cell apoptosis regulation study with intracellular delivery of this protein.
2. As soluble / native protein, may be used as enzymatic substrate protein for kinase and ubiquitin assay development.
3. May be used for mapping BCAS2 protein-protein interaction.
4. May be used as antigen for specific antibody development.

Quality Control

1. Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGEFMAGTGLVAGEVVVDALPYFDQGYEAPGVREAAAALVEEETRRYRPTKNY
LSYLTAPDYSAFETDIMRNEFERLAARQPIELLSMKRYELPAPSSGQKNDITAWQECVNNNSMAQ
LEHQAVRIENLELMSQHGCNAWKVYNENLVHMI EHAQKELQKLRKHIQDLNWQRKNMQLTAGSK
LREMESNWVSLVSKNYEIER TIVQLENEIYQIKQQHGEANKENIRQDF