

Recombinant human Endophilin A1/SH3GL2 protein

Catalog Number: ATGP1506

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-352aa

UniProt No.

Q99962

NCBI Accession No.

NP_003017

Alternative Names

Endophilin-A1, CNSA2, EEN-B1, SH3D2A, SH3P4

PRODUCT SPECIFICATION

Molecular Weight

42.5 kDa (376aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM 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

SH3GL2 (SH3-domain GRB2-like 2), also known as endophilin-A1, belongs to the endophilin family. It contains a BAR domain and a SH3 domain. Members of the BAR domain protein superfamily are essential elements of cellular traffic. Endophilins are among the best studied BAR domain proteins. They have a prominent function in synaptic vesicle endocytosis (SVE), receptor trafficking and apoptosis, and in other processes that require remodeling of the membrane structure. SH3GL2 a novel tumor suppressor gene in laryngeal squamous cell carcinoma (LSCC), induces apoptosis of tumor cells by regulating intra-cellular signal transduction networks.

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Recombinant human SH3GL2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

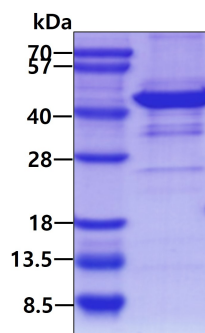
MGSSHHHHHH SSGLVPRGSH MGSMSVAGL KKQFHKATQK VSEKVGGAEG TKLDDDFKEM ERKVDVTSRA
VMEIMTKTIE YLQPNPASRA KLSMINTMSK IRGQEKPGY PQAEALLAEA MLKFGRELGD DCNFGPALGE VGEAMRELSE
VKDSLIEVK QNFIDPLQNL HDKDLREIQH HLKKLEGRRLL DFDYKKKRQG KIPDEELRQA LEKFDESKEI AESSMFNLLE
MDIEQVSQSL ALVQAQLEYH KQAVQILQQV TVRLEERIRQ ASSQPRREYQ PKPRMSLEFP TGDSTQPNGG LSHTGTPKPS
GVQMDQPCCR ALYDFEPENE GELGFKEGDI ITLTNQIDEN WYEGMLHGHS GFFPINYVEI LVALPH

General References

Shang C, Guo Y, Fu S, Fu W, Sun K.
Med Sci Monit. 2010 Jun
16(6):BR168-73.

DATA

SDS-PAGE



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