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# Recombinant human SHC1 protein

Catalog Number: ATGP1128

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-474aa

#### **UniProt No.**

P29353

#### **NCBI Accession No.**

NP 003020

#### **Alternative Names**

SHC-transforming protein 1, FLJ26504, SH2 domain protein C1, SHC, SHC-transforming protein 3, p66, MGC98812, SHCA, Src homology 2 domain containing transforming protein C1

### **PRODUCT SPECIFICATION**

# **Molecular Weight**

53.8 kDa (494aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl, 0.1mM PMSF

#### **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**

SHC1 (SHC-transforming protein 1) belongs to the SH2 domain family. SHC1 has been found to be important in the regulation of apoptosis and drug resistance in mammalian cells. It is a signaling adapter that couples activated growth factor receptors to signaling pathway. SHC1 expressed in neural stem cells but absent in mature neurons. Recombinant human SHC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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## **Amino acid Sequence**

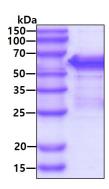
<MGSSHHHHHH SSGLVPRGSH> MNKLSGGGGR RTRVEGGQLG GEEWTRHGSF VNKPTRGWLH PNDKVMGPGV SYLVRYMGCV EVLQSMRALD FNTRTQVTRE AISLVCEAVP GAKGATRRRK PCSRPLSSIL GRSNLKFAGM PITLTVSTSS LNLMAADCKQ IIANHHMQSI SFASGGDPDT AEYVAYVAKD PVNQRACHIL ECPEGLAQDV ISTIGQAFEL RFKQYLRNPP KLVTPHDRMA GFDGSAWDEE EEEPPDHQYY NDFPGKEPPL GGVVDMRLRE GAAPGAARPT APNAQTPSHL GATLPVGQPV GGDPEVRKQM PPPPPCPAGR ELFDDPSYVN VQNLDKARQA VGGAGPPNPA INGSAPRDLF DMKPFEDALR VPPPPQSVSM AEQLRGEPWF HGKLSRREAE ALLQLNGDFL VRESTTTPGQ YVLTGLQSGQ PKHLLLVDPE GVVRTKDHRF ESVSHLISYH MDNHLPIISA GSELCLQQPV ERKL

#### **General References**

Debnath J., et al. (2010) Oncogene. 29(41):5556-8. Zhou M.-M., et al. (1995) Proc. Natl. Acad. Sci. u.S.A. 92:7784-7788

#### **DATA**

#### **SDS-PAGE**



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

