

# Recombinant human GAS7 protein

Catalog Number: ATGP0295

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-416aa

### UniProt No.

O60861

### NCBI Accession No.

NP\_958836

### Alternative Names

Growth arrest-specific 7 isoform b, KIAA0394, Growth arrest-specific 7, isoform b Growth arrest specific 7, GAS 7, GAS7, MGC1348, MLL/GAS7 fusion protein.

## PRODUCT SPECIFICATION

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### Molecular Weight

49.8 kDa (436aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 2mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

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### Description

Growth arrest-specific 7, also known as GAS7, is expressed primarily in terminally differentiated brain cells and predominantly in mature cerebellar Purkinje neurons. GAS7 plays a putative role in neuronal development by promoting maturation and morphological differentiation of cerebellar neurons. Inhibition of GAS7 production in

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terminally differentiating cultures of embryonic murine cerebellum impedes neurite outgrowth. Conversely, the hyper-expression of GAS7 may play an important role in the initiation and development of human osteosarcoma. Recombinant GAS7, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by conventional chromatography techniques.

## Amino acid Sequence

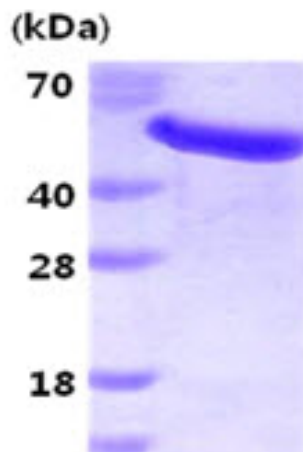
MGSSHHHHHHH SSGLVPRGSH MKPGMVPPPP GEESQTVILP PGWQSYLSPQ GRRYYVNTTT NETTWERPSS SPGIPASPGS  
HRSSLPPTVN GYHASGTPAH PPETAHMSVR KSTGDSQNLG SSSPSKKQSK ENTITINCVT FPHPDTMPEQ QLLKPTEWSY  
CDYFWADKKD PQGNGTVAGF ELLLQQLKG KQMOKEMSEF IRERIKIEED YAKNLAKLSQ NSLASQEEGS LGEAWAQVKK  
SLADEAEVHL KFSAKLHSEV EKPLMNFREN FKKDMKKCDH HIADLRKQLA SRYASVEKAR KALTERQRDL EMKTQQLEIK  
LSNKTEEDIK KARRKSTQAG DDLMRCVDLY NQAQSKWFEE MVTTTLELER LEVERVEMIR QHLCQYTQLR HETDMFNQST  
VEPVDQLLRK VDKPAKDRELW VREHKTGNIR PVDMEI

## General References

Chao CC., et al. (2005). *J Neurosci Res.* 81(2):153-62  
She BR., et al. (2002). *Exp Cell Res.* 273(1):34-44.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)