

# Recombinant Human Growth Associated Protein 43, His-tagged

Cat. No. GAP43-6831H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human GAP43 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-238aa
<b>Description</b>	GAP43 is a phosphoprotein of the presynaptic membrane involved in synaptic reorganization and neural development. It is present at high levels in neuronal growth cones during development and axonal regeneration. GAP43 is normally produced by neurons during developmental growth and axonal regeneration, but it is also expressed in specific regions of the normal adult nervous system.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol.
<b>Molecular Mass</b>	27.3 kDa (262aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MSHMLCCMR RTKQVEKNDD DQKIEQDGIK PEDKAHKAAT KIQASFRGHI TRKCLKGEEK DDVQAAEAEA NKKDEAPVAD GVEKKGEGTT TAEAAPATGS KPDEPGKAGE TPSEEKKGEG DAATEQAAPQ APASSEEKAG SAETESATKA STDNSPSSKA EDAPAKEEPK QADVPAAVTA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AAATTPAAED AAKATAQPP TETGESSQAE ENIEAVDETK PKESARQDEG  
KEEPEADQE HA

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by BCA assay)

## GENE INFORMATION

**Gene Name** [GAP43 growth associated protein 43 \[ Homo sapiens \]](#)

**Official Symbol** GAP43

**Synonyms** GAP43; growth associated protein 43; neuromodulin; axonal membrane protein GAP 43; B 50; calmodulin binding protein P 57; nerve growth related peptide GAP43; neural phosphoprotein B 50; neuron growth associated protein 43; PP46; protein F1; neural phosphoprotein B-50; growth-associated protein 43; axonal membrane protein GAP-43; calmodulin-binding protein P-57; nerve growth-related peptide GAP43; neuron growth-associated protein 43; B-50;

**Gene ID** [2596](#)

**mRNA Refseq** [NM\\_001130064](#)

**Protein Refseq** [NP\\_001123536](#)

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<b>MIM</b>	162060
<b>UniProt ID</b>	P17677
<b>Chromosome Location</b>	3q21-qter
<b>Pathway</b>	N-cadherin signaling events, organism-specific biosystem;
<b>Function</b>	calmodulin binding; protein binding;

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