

Recombinant Human Growth Associated Protein 43, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human GAP43 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-238aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol.
Molecular Mass	27.3 kDa (262aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSHMLCCMR RTKQVEKNDD DQKIEQDGIK PEDKAHKAAT KIQASFRGHI TRKKLKGEKK DDVQAAEAEA NKKDEAPVAD GVEKKGEGTT TAEAAPATGS KPDEPGKAGE TPSEEKKGEG DAATEQAAPQ APASSEKAG SAETESATKA STDNSPSSKA EDAPAKEEPK QADVPAAVTA

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	AAATTPAAED AAKATAQPP TETGESSQAE ENIEAVDETK PKESARQDEG KEEEPEADQE 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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MIM	162060
UniProt ID	P17677
Chromosome Location	3q21-qter
Pathway	N-cadherin signaling events, organism-specific biosystem;
Function	calmodulin binding; protein binding;

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