

Recombinant human GAP-43 protein

Catalog Number: ATGP1579

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-238aa

UniProt No.

P17677

NCBI Accession No.

NP_002036.1

Alternative Names

Growth associated protein 43, Neuromodulin, B-50, PP46

PRODUCT SPECIFICATION

Molecular Weight

27.3 kDa (262aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by BCA assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

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

Growth associated protein 43, also known as 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. Also, GAP43 plays an essential role in the maintenance mechanism of long-term potentiation (LTP). Recombinant human GAP43 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

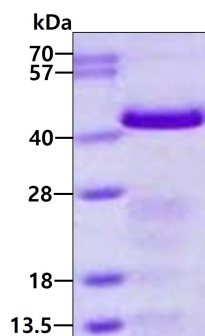
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APASSEKAG SAETESATKA STDNSPSSKA EDAPAKEEPK QADVPAAVTA AAATTPAAED AAKATAQPP TETGESSQAE
ENIEAVDETK PKESARQDEG KEEPEADQE HA

General References

Dent E W., et al. (1998) J Neurobiol. 35:287-299.
Neve R L., et al. (1998) J Neurosci. 18: 7757-7767.

DATA

SDS-PAGE



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