

GAP43 Human

Description: GAP43 Human Recombinant produced in E. coli is a single polypeptide chain containing 262 amino acids (1-238) and having a molecular mass of 27.3kDa. GAP43 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-1133

Synonyms: Growth associated protein 43, Axonal membrane protein GAP-43, Neural phosphoprotein B-50, calmodulin-binding protein P-57, nerve growth-related peptide GAP43, neuromodulin, protein F1, pp46, B-50.

For research use only.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSFMLCCMR RTKQVEKNDD
DQKIEQDGIK PEDKAHKAAT KIQASFRGHI TRKCLKGEKK DDVQAAEAEA NKKDEAPVAD
GVEKKGEGTT TAEAAPATGS KPDEPGKAGE TPSEEKKGEG DAATEQAAPQ APASSEEKAG
SAETESATKA STDNSPSSKA EDAPAKEEPK QADVPAAVTA AAATTPAED AAKATAQPP
TETGESSQAE EN

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The GAP43 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

GAP43 is a phosphoprotein of the presynaptic membrane that takes part in synaptic reorganization and neural development. GAP43 is found in large quantities in neuronal growth cones all through the development and axonal regeneration. Additionally, GAP43 is involved in specific regions of the normal adult nervous system and has a vital part in the conservation mechanism of long-term potentiation (LTP).

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