
Product Data Sheet

Product Name: GAP43 Human

Cat. No.: GP23535

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHTMLCCMR RTKQVEKNDD DQKIEQDGIK PEDKAHKAAT KIQASFRGHI TRKCLKGEKK DDVQAAEAEA NKKDEAPVAD GVEKKGEGTT TAEAAPATGS KPDEPGKAGE TPSEEKKGEG DAATEQAAPQ APASSEEKAG SAETESATKA STDNSPSSKA EDAPAKEEPK QADVPAAVTA AAATTPAAED AAKATAQPP TETGESSQAE ENIEAVDETK PKESARQDEG KEEPEADQE HA		
Formulation	The GAP43 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 10% glycerol.		

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).

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.

Background

GAP43 Human Recombinant produced in E. coli is a single polypeptide chain containing

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262 amino acids (1-238) and having a molecular mass of 27.3kDa (Molecular size on SDS-PAGE will appear higher).GAP43 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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