

ARFIP2 Human

Description:ARFIP2 Human Recombinant produced in E. coli is a single polypeptide chain containing 364 amino acids (1-341) and having a molecular mass of 40.2 kDa. ARFIP2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PRPS-1208

Synonyms:ADP-ribosylation factor interacting protein 2, partner of RAC1 (arfaptin 2), Partner of RAC1, Protein POR1, arfaptin-2, POR1.

For research use only.

Source:E.coli.

Physical Appearance:Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGS TDGILG KAATMEIPIH
GNGEARQLPE DDGLEQLDQQ VMVSGPNLNE TSIVSGGYGG SGDGLIPTGS GRHPSHSTTP
SGPGDEVARG IAGEKFDIVK KWGINTYKCT KQLLSERFGR GSRTVDLELE LQIELLRETK
RKYESVLQLG RALTAHLYSL LQTQHALGDA FADLSQKSPE LQEEFGYNAE TQKLLCKNGE
TLLGAVNFFV SS

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

Formulation:

The ARFIP2 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 1mM DTT and 40% 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:

Arfaptin 2 (ARFIP2) is a Rac1 binding protein essential for Rac-mediated actin polymerization and the succeeding formation of membrane ruffles and lamellipodia. ARFIP2 is a putative target protein of ADP-ribosylation factor. ARFIP2 is also involved in membrane ruffling. ARFIP2 expression is increased at sites of neurodegeneration. In addition, ARFIP2 interacts with the ADP ribosylation factor ARF6, a GTPase which associates with the plasma membrane and intracellular endosome vesicles, in a GTP dependent mode. Furthermore, Arfaptin 2 controls the aggregation of mutant Huntingtin protein by weakening proteasome function.

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