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ARFIP2 Human

ADP-Ribosylation Factor Interacting Protein 2 Human Recombinant
RCP0099

Product Overview

Name	ARFIP2 Human

Description

ADP-Ribosylation Factor Interacting Protein 2 Human Recombinant

Accession (Primary)	P53365

Synonyms

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

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.

Source

E.coli.

Physical Appearance

Sterile Filtered colorless solution.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS TDGILG KAATMEIPIH GNGEARQLPE DDGLEQDLQQ VMVSGPNLNE TSIVSGGYGG SGDGLIPTGS GRHPSHSTTP SGPGDEVARG IAGEKFDIVK KWGINTYKCT KQLLSERFGR

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GSRTVDLELE LQIELLRETK RKYESVLQLG RALTAHLYSL LQTQHALGDA FADLSQKSPE LQEEFGYNAE TQKLLCKNGE TLLGAVNFFV SSINTLVTKT MEDTLMTVKQ YEAARLEYDA YRTDLEELSL GPRDAGTRGR LESAQATFQA HRDKYEKLRG DVAIKLKFLE ENKIKVMHKQ LLLFHNAVSA YFAGNQKQLE QTLQQFNIKL RPPGAEKPSW LEEQ

Precautions

ARFIP2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P53365)