

# Product information



## ARFIP2, 1-341aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1695

**Full name:** Arfaptin 2

**NCBI Accession No.:** NP\_036534

**Synonyms:** POR1

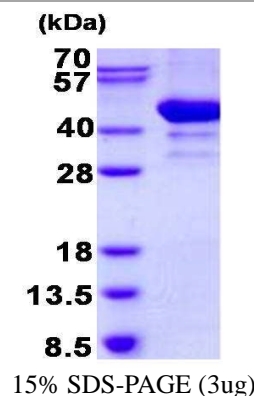
**Description:** Arfaptin 2, also known as ARFIP2, is a Rac1 binding protein necessary for Rac-mediated actin polymerization and the subsequent formation of membrane ruffles and lamellipodia. ARFIP2 has also been shown to interact with the ADP ribosylation factor ARF6, a GTPase that associates with the plasma membrane and intracellular endosome vesicles, in a GTP dependent manner. Arfaptin 2 also regulates the aggregation of mutant Huntingtin protein by possibly impairing proteasome function. Expression of ARFIP2 was shown to be increased at sites of neurodegeneration. Recombinant human ARFIP2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl,  
40% glycerol, 1mM DTT

**Molecular Weight:** 40.2 kDa (364aa), confirmed by MALDI-TOF

**Purity:** > 90% by SDS - PAGE

**Concentration:** 0.25 mg/ml (determined by Bradford assay)



### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMTDGI LG KAATMEIPIH GNGEARQLPE DDGLEQDLQQ VMVSGPNLNE TSIVSGGYGG SGDGLIPTGS  
GRHPSHSTTP SGPGEVARG IAGEKFDIVK KWGINITYKCT KQLLSERFGR GSRTVOLELE LQIELLRETK RKYESVLQLG RALTAHLYSL  
LQTQHALGDA FADLSQKSPE LQEEFGYNAE TQKLLCKNGE TLLGAVNFFV SSINTLVTKT MEDTLMTVKQ YEAARLEYDA YRTDLEELS  
GPRDAGTRGR LESAQATFQA HRDKYEKLRG DVAIKLKFL E NKIKVMHKQ LLLFHNAVSA YFAGNQKQLE QTLQQFNIKL RPPGAEKPSW  
LEEQ

### General references:

D'Souza Schorey C., *et al.* (1997) *EMBO J.* 16: 5445-5454

Joneson T., *et al.* (1996) *Science.* 274: 1374-1376.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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