# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-179aa

UniProt No. Q96KC2

NCBI Accession No. NP\_848930

### **Alternative Names**

ADP-ribosylation factor-like protein 5B, ARL8, ADP ribosylation factor like GTPase 5B, ADP-ribosylation factor-like 8

## **PRODUCT SPECIFICATION**

### **Molecular Weight**

22.5 kDa (199aa) confirmed by MALDI-TOF

**Concentration** 0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 30% glycerol, 0.1M NaCl, 1mM EDTA

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

Tag His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### BACKGROUND

### Description

ADP-ribosylation factor-like protein 5B, also known as ARL5B, belongs to a family of proteins that are structurally similar to ADP-ribosylation factors. ARLs and ARFs are part of the RAS superfamily of regulatory GTPases. ARL5B is most closely related to ARL5, with which it shares 80% sequence identity. Human ARL5B shares 100% identity with mouse ARL8 and 71% identity with the Drosophila homolog. Two isoforms of ARL8 exist as a result of alternative splicing events. Recombinant human ARL5B protein, fused to His-tag at N-terminus, was expressed in



E. coli and purified by using conventional chromatography techniques.

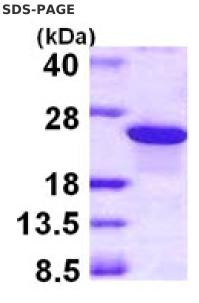
### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGLIFAKLWS LFCNQEHKVI IVGLDNAGKT TILYQFLMNE VVHTSPTIGS NVEEIVVKNT HFLMWDIGGQ ESLRSSWNTY YSNTEFIILV VDSIDRERLA ITKEELYRML AHEDLRKAAV LIFANKQDMK GCMTAAEISK YLTLSSIKDH PWHIQSCCAL TGEGLCQGLE WMTSRIGVR

### **General References**

Kahn R A., et al. (2006) J Biol Chem. 172:645-650. Swbald E., et al. (2003 Gene. 311:147-151.

# DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)

