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**Product Data Sheet**


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Product Name: ARL4D Human  
 Cat. No.: GP22775  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ADP-ribosylation factor-like 4D; ADP-ribosylation factor-like protein 4L; ARF4L; ARL6.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGNHLTEMAP TASSFLPHFQ ALHVVVIGLD SAGKTSLLYR LKFKEFVQSV PTKGFNTEKI RVPLGGSRGI TFQVWDVGGQ EKLRPLWRSY TRRTDGLV FV VDAAEAERLE EAKVELHRIS RASDNQGV PV LVLANKQDQP GALSAAEVEK RLAVRELA AAA TLTHVQGCSA VDGLGLQQGL ERLYEMILKR KKAARGGKKR R		
Formulation	The ARL4D solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 0.2M NaCl and 20% glycerol.		

**Introduction**

ARL4D is a developmentally regulated member of the ADP-ribosylation factor/ARF-like protein (ARF/ARL) family of Ras-related GTPases. Small GTP-binding protein which cycles between an inactive GDP-bound and an active GTP-bound form, and the rate of cycling is regulated by guanine nucleotide exchange factors (GEF) and GTPase-activating proteins (GAP). ARL4D takes part in membrane-associated intracellular trafficking. Mutations in this gene is linked to Bardet-Biedl syndrome (BBS).

**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**

ARL4D Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 221 amino acids (1-201) and having a molecular mass of 24.3

**Caution: Product has not been fully validated for medical applications. For research use only.**

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kDa.ARL4D is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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