

## ARL14 Human

**Description:**ARL14 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 212 amino acids (1-192 a.a.) and having a molecular mass of 23.8kDa (Molecular weight on SDS-PAGE will appear higher).ARL14 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PRPS-943

For research use only.

**Synonyms:**ADP-ribosylation factor-like protein 14, ADP-ribosylation factor 7, ARL14, ARF7, FLJ22595.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSLGSKNPQ TKQAQVLLLG  
LDSAGKSTLL YKLKLAKDIT TIPTIGFNVE MIELERNLSL TVWDVGGQEK MRTVWGCYCE  
NTDGLVYVVD STDKQRLEES QRQFEHILKN EHIKNVPVVL LANKQDMPGA LTAEDITRMF  
KVKKLCSDRN WYVQPCCALT GEGLAQGFRK LTGFVKSHMK SRGDTLAFFK QN.

**Purity:**Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

ARL14 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 40% glycerol, 200mM NaCl and 1mM EDTA.

**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:**

ADP-ribosylation factor-like 14 (ARL14) is a developmentally regulated member of the ADP-ribosylation factor/ARF-like protein (ARF/ARL) family of Ras-related GTPases. ARL14 is GTPase which recruits MYO1E to MHC class II-containing vesicles via the effector protein C11orf46/ARF7EP and thus controls the movement of these vesicles along the actin cytoskeleton in dendritic cells. MHC-II transport was controlled by the GTPase ARL14/ARF7, which recruits the motor myosin 1E via an effector protein ARF7EP.

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