Data Sheet (Cat.No.TMPY-03868)

TargetMol

ARF5 Protein, Human, Recombinant (His)

General Information

Synonyms:	ARF5;ADP ribosylation factor 5
Protein Construction:	A DNA sequence encoding the human ARF5 (AAP36805.1)(Met1-Arg180) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	P84085
Molecular Weight:	22.8 kDa (predicted); 23 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, 10% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

ARF5, also known as ADP-ribosylation factor 5, belongs to the small GTPase superfamily, Arf family. Members of this family stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking and as activators of phospholipase D. ARF5 functions as an allosteric activator of the cholera toxin catalytic subunit, an ADP-ribosyltransferase. ARF5 Is involved in protein trafficking. ARF5 may also modulate vesicle budding and uncoating within the Golgi apparatus.

Reference

Kanoh H. et al., 1997, J Biol Chem. 272 (9): 5421-9.
Tsuchiya M. et al., 1991, J Biol Chem. 266 (5): 2772-7.
McGuire RE. et al., 1997, Genomics. 41 (3): 481-4.

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