Data Sheet (Cat.No.TMPY-03979)

TargetMol

ARHI Protein, Human, Recombinant (mFc)

General Information

Synonyms:	DIRAS3;DIRAS family, GTP-binding RAS-like 3;ARHI;RHOI;NOEY2
Protein Construction:	A DNA sequence encoding the human DIRAS3 (O95661) (Met1-Lys225) was expressed with the Fc region of mouse IgG1 at the N-terminus. Predicted N terminal: Asp
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O95661
Molecular Weight:	52.1 kDa (predicted); 62 kDa (reducing condition, due to glycosylation)

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:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, 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

ARHI, also known as DIRAS3, belongs to the small GTPase superfamily, Di-Ras family. ARHI gene is a novel tumor suppressor gene located on chromosome 1p31. Downregulation of ARHI expression has been detected in many types of cancer. ARHI is expressed in normal ovarian and breast epithelial cells but not in ovarian and breast cancers. As a suppressor, ARHI is not only an important factor in the pathogenesis of gastric cancer, but also a potential factor for tumor aggravation. ARHI expression in gastric cancer can be employed to indicate favorable

prognosis for the disease.

Reference

Pei XH. et al., 2011, Cell Biol Int. 35 (10): 1019-24.
Lin D. et al., 2011, J Int Med Res. 39 (5): 1870-5.
Wang W. et al., 2012, Oncol Rep. 27 (6): 1953-9.

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