Data Sheet (Cat.No.TMPY-03993)

TargetMol

KIAA1279 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	KBP;KIAA1279;TTC2
Protein Construction:	A DNA sequence encoding the human KIAA1279 (Q96EK5) (Met1-Thr621) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q96EK5
Molecular Weight:	99.6 kDa (predicted); 92-102 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:	> 90 % 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 20 mM Tris, 500 mM NaCl, 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

KIFBP (Kinesin Family Binding Protein, also known as KIAA1279 and KIF1BP) is a Protein Coding gene. This gene encodes a kinesin family member 1 binding protein that is characterized by two tetratricopeptide repeats. The encoded protein localizes to the mitochondria and may be involved in regulating the transport of the mitochondria. Homozygous nonsense mutations in KIAA1279 at 1q22.1, encoding a protein with two tetratricopeptide repeats, underlie this syndromic form of Hirschsprung disease and generalized polymicrogyria,

establishing the importance of KIAA1279 in both enteric and central nervous system development. KIAA1279 is widely expressed in the brain, testis, and other tissues. Diseases associated with KIFBP include Goldberg-Shprintzen Syndrome and Shprintzen-Goldberg Craniosynostosis Syndrome.

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