Data Sheet (Cat.No.TMPJ-00320)

TargetMol

AMIGO2 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	DEGA;AMIGO-2;AMIGO2;ALI1;Alivin-1;Amphoterin-Induced Protein 2;Differentially Expressed in Gastric Adenocarcinomas
Protein Construction:	Gly39-His393
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q86SJ2
Molecular Weight:	93 KDa (reducing condition)
AA Sequence:	Gly39-His393

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

Amphoterin-Induced Protein 2 (AMIGO2) is a single-pass type I membrane protein which belongs to the AMIGO family of immunoglobulin superfamily. Mature AMIGO2 contains an Ig-like C2-type (immunoglobulin-like) domain, 6 LRR (leucine-rich) repeats, a LRRCT domain, as well as a LRRNT domain. AMIGO2 is mainly expressed in in breast, ovary, cervix, and uterus, although lower in lung, colon, and rectum. AMIGO2 required for depolarization-dependent survival of cultured cerebellar granule neurons. AMIGO2 may mediate homophilic as well as

heterophilic cell-cell interaction with AMIGO1 or AMIGO3. AMIGO2 may contribute to signal transduction through its intracellular domain, and may be required for tumorigenesis of a subset of gastric adenocarcinomas.

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