Data Sheet (Cat.No.TMPY-04318)

TargetMol

GRIK2 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	GLUR6;EAA4;MRT6;GLR6;glutamate receptor, ionotropic, kainate 2;GLUK6;GluK2
Protein Construction:	A DNA sequence encoding the human GRIK2 (NP_001159719.1) (Met1-Pro561) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Thr 32
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13002-5
Molecular Weight:	86.5 kDa (predicted)

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 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

GRIK2 (Glutamate Ionotropic Receptor Kainate Type Subunit 2, also known as GluR6) is a Protein Coding gene. The GRIK2 (one of the kainate receptors) gene resides in a genetic linkage region (6q21) associated with bipolar disorder (BPD). The gene coding for GRIK2 has been suggested as a candidate gene for autism based on its localization in the autism-specific region on chromosome 6q21 and the involvement of receptor protein in cognitive functions like learning and memory. GRIK2 belongs to the glutamate-gated ion channel (TC 1.A.10.1)

family. GRIK2 has a role in the maintenance of urothelial CSCs/CICs and that GRIK2 and ALDH1 can be prognosis prediction markers for urinary tract carcinomas.

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