

GRIK2 Protein, Human (HEK293, hFc)

| | |
|-------------------|--|
| Cat. No.: | HY-P75156 |
| Synonyms: | Glutamate receptor ionotropic, kainate 2; GluK2; EAA4; GluR6 |
| Species: | Human |
| Source: | HEK293 |
| Accession: | Q13002/NP_001159719.1 (T32-P561) |
| Gene ID: | 2898 |
| Molecular Weight: | Approximately 100-115 kDa due to the glycosylation |

PROPERTIES

| | |
|---------------------|--|
| AA Sequence | <p> T T H V L R F G G I F E Y V E S G P M G A E E L A F R F A V N T I N R N R T L L P N T T L T Y D T Q K I N L Y D S F E A S K K A C D Q L S L G V A A I F G P S H S S S A N A V Q S I C N A L G V P H I Q T R W K H Q V S D N K D S F Y V S L Y P D F S S L S R A I L D L V Q F F K W K T V T V V Y D D S T G L I R L Q E L I K A P S R Y N L R L K I R Q L P A D T K D A K P L L K E M K R G K E F H V I F D C S H E M A A G I L K Q A L A M G M M T E Y Y H Y I F T T L D L F A L D V E P Y R Y S G V N M T G F R I L N T E N T Q V S S I I E K W S M E R L Q A P P K P D S G L L D G F M T T D A A L M Y D A V H V V S V A V Q Q F P Q M T V S S L Q C N R H K P W R F G T R F M S L I K E A H W E G L T G R I T F N K T N G L R T D F D L D V I S L K E E G L E K I G T W D P A S G L N M T E S Q K G K P A N I T D S L S N R S L I V T T I L E E P Y V L F K K S D K P L Y G N D R F E G Y C I D L L R E L S T I L G F T Y E I R L V E D G K Y G A Q D D A N G Q W N G M V R E L I D H K A D L A V A P L A I T Y V R E K V I D F S K P F M T L G I S I L Y R K P N G T N P G V F S F L N P L S P </p> |
| Biological Activity | Measured by its ability to inhibit cell migration of AGS cells. |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

GRIK2, an ionotropic glutamate receptor, serves as a pivotal component in central nervous system synapses where L-glutamate acts as an excitatory neurotransmitter. Upon binding of L-glutamate, the receptor undergoes a conformational change, facilitating the opening of the cation channel and translating the chemical signal into an electrical impulse. Subsequently, the receptor swiftly desensitizes and enters a transient inactive state marked by the presence of bound agonist. Beyond its ionotropic glutamate receptor activity, GRIK2 plays a role in modulating the cell surface expression of NETO2 and functions as a thermoreceptor, conferring sensitivity to cold temperatures, particularly in dorsal root ganglion neurons.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA