

GRK2 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

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			

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 ddH₂O. 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