

GLIPR1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70359
Synonyms:	rHuGlioma pathogenesis-related protein 1/GliPR1, His; Glioma Pathogenesis-Related Protein 1; GliPR 1; Protein RTVP-1; GLIPR1; GLIPR; RTVP1
Species:	Human
Source:	HEK293
Accession:	P48060 (A22-R232)
Gene ID:	11010
Molecular Weight:	Approximately 29.0 kDa

PROPERTIES

AA Sequence	A N I L P D I E N E D F I K D C V R I H N K F R S E V K P T A S D M L Y M T W D P A L A Q I A K A W A S N C Q F S H N T R L K P P H K L H P N F T S L G E N I W T G S V P I F S V S S A I T N W Y D E I Q D Y D F K T R I C K K V C G H Y T Q V V W A D S Y K V G C A V Q F C P K V S G F D A L S N G A H F I C N Y G P G G N Y P T W P Y K R G A T C S A C P N N D K C L D N L C V N R Q R D Q V K R Y Y S V V Y P G W P I Y P R N R
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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	<p>Glioma pathogenesis-related protein 1 (GLIPR1) is a protein with similarity to both the pathogenesis-related protein (PR) superfamily and the cysteine-rich secretory protein (CRISP) family. GLIPR1 is initially identified in glioblastoma. GLIPR1 promotes proliferation, metastasis and 5-fluorouracil resistance in hepatocellular carcinoma by activating the PI3K/PDK1/ROCK1 pathway. GLIPR1 promotes cell survival, growth, chemoresistance, and metastasis of glioma by multiple mechanisms. GLIPR1 can also mediate the role of signal transducer and activator of transcription 3 (STAT3) in regulating the glioma epithelial-mesenchymal transition by increasing the expression of IL-6 which in turn activates STAT3 pathway.</p>
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GLIPR1 has been found functioning as a tumor suppressor in prostate cancer, lung cancer, bladder cancer, and osteosarcoma via inducing cell cycle arrest, apoptosis, inhibiting key oncogenic drivers including c-Myc and TPX2, as well as triggering other tumor suppressors such as p53^{[1][2][3][4]}.

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