

REG-4 Protein, Human (HEK293, His)

Cat. No.:	HY-P71257
Synonyms:	Regenerating islet-derived protein 4; Gastrointestinal secretory protein; REG-like protein; Regenerating islet-derived protein IV; GISP; RELP; REG4
Species:	Human
Source:	HEK293
Accession:	Q9BYZ8 (D23-P158)
Gene ID:	83998
Molecular Weight:	Approximately 16.0 kDa

PROPERTIES

AA Sequence	D I I M R P S C A P G W F Y H K S N C Y G Y F R K L R N W S D A E L E C Q S Y G N G A H L A S I L S L K E A S T I A E Y I S G Y Q R S Q P I W I G L H D P Q K R Q Q W Q W I D G A M Y L Y R S W S G K S M G G N K H C A E M S S N N N F L T W S S N E C N K R Q H F L C K Y R P
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
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	REG-4, a calcium-independent lectin, exhibits a specific affinity for mannose and retains its carbohydrate recognition activity even in acidic environments. This suggests a robust and adaptable molecular structure that may function effectively under varying physiological conditions. REG-4 is implicated in inflammatory and metaplastic responses within the gastrointestinal epithelium, indicating its potential role in the regulation of cellular processes associated with inflammation and tissue transformation. The mannose-binding specificity of REG-4 suggests its involvement in recognizing and interacting with glycoproteins or other molecules displaying mannose residues, possibly contributing to immune responses or cell signaling in the gastrointestinal context.
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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