

REG-3 alpha/REG3A Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P76569
Synonyms:	Regenerating islet-derived protein 3-alpha; REG-3-alpha; Lithostathine 3; PAP2
Species:	Rat
Source:	HEK293
Accession:	P35231 (M1-Q174)
Gene ID:	171162
Molecular Weight:	Approximately 44 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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-3 alpha/REG3A Protein is a bactericidal C-type lectin that lacks the EPN motif, which may explain its inability to bind peptidoglycan. It functions as a hormone in response to various stimuli, including anti-inflammatory signals like IL17A and the gut microbiome. REG-3 alpha/REG3A protein is secreted by different cell types and activates its receptor EXTL3, initiating cell-specific signaling pathways. In keratinocytes, it is induced by IL17A and plays a role in regulating keratinocyte proliferation and differentiation following skin injury. It also inhibits skin inflammation by suppressing inflammatory cytokines like IL6 and TNF. In the pancreas, REG-3 alpha/REG3A protein is able to permeabilize beta-cell membranes and stimulate their proliferation.
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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