

REG-3 alpha/REG3A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76568
Synonyms:	Regenerating islet-derived protein 3-alpha; REG-3-alpha; Lithostathine 3; PAP2
Species:	Mouse
Source:	HEK293
Accession:	NP_035389 (E27-Q175)
Gene ID:	19694
Molecular Weight:	Approximately 18 kDa

PROPERTIES

AA Sequence	<p>E D F Q K E V P S P R T S C P M G Y K A Y R S H C Y A L V M T P K S W F Q A D L</p> <p>V C Q K R P S G H L V S I L S G G E A S F V S S L V N G R V D N Y Q D I W I G L</p> <p>H D P T M G Q Q P N G G G W E W S N S D V L N Y L N W D G D P S S T V N R G H C</p> <p>G S L T A S S G F L K W G D Y Y C D G T L P F V C K F K Q</p>
Biological Activity	Measured in a cell proliferation assay using H4 human neuroglioma cells. The ED ₅₀ for this effect is 0.202 µg/mL, corresponding to a specific activity is 4.960×10 ³ Unit/mg.
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	REG-3 alpha (REG3A) protein is predicted to exhibit several functions, including identical protein binding activity, oligosaccharide binding activity, and peptidoglycan binding activity. Its involvement in the negative regulation of keratinocyte differentiation, positive regulation of keratinocyte proliferation, and positive regulation of wound healing highlights its role in skin-related processes. Predicted to be located in the extracellular region and active in the extracellular space, REG3A is prominently expressed in the gut and pancreas. The presence of orthologous genes in humans, such as
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REG3G (regenerating family member 3 gamma), underscores the evolutionary conservation of its function. Notably, biased expression in tissues like the large intestine and duodenum further emphasizes its specific roles in distinct physiological contexts.

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

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