

REG-3 beta/REG3B Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76003
Synonyms:	Regenerating islet-derived protein 3-beta; REG-3-beta; Reg III-beta; PAP; PAP1
Species:	Mouse
Source:	HEK293
Accession:	P35230 (M1-G175)
Gene ID:	18489
Molecular Weight:	Approximately 19 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 beta/REG3B, a bactericidal C-type lectin, exhibits antimicrobial properties against various intestinal Gram-positive and Gram-negative bacteria, with the exception of <i>S.typhimurium</i> . Its potential role in protecting against <i>S.enteritidis</i> infection involves inhibiting the translocation of the pathogen from the gut lumen into intestinal and extraintestinal tissues. Beyond its antibacterial function, REG-3 beta acts as a hormone in response to diverse stimuli. When secreted by different cell types, it activates its receptor EXTL3, initiating cell-specific signaling pathways. Notably, in the pancreas, REG-3 beta has the ability to stimulate cell proliferation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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