

Gastrin-71 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P78703
Synonyms:	Gastrin-71; Gastrin; GAST; Gastrin component
Species:	Mouse
Source:	HEK293
Accession:	P48757 (S22-F92)
Gene ID:	14459
Molecular Weight:	approximately 38-43 kDa

PROPERTIES

AA Sequence	S W K P R S Q L Q D A S S G P G T N E D L E Q R Q F N K L G S A S H H R R Q L G P Q G P Q H F I A D L S K K Q R P R M E E E E E A Y G W M D F
Biological Activity	Measured in a cell proliferation assay using HT-29 human coloncancer cells. The ED ₅₀ for this effect is 1.093 ng/mL, corresponding to a specific activity is 9.15×10 ⁵ Unit/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, 200 mM arginine, 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>Gastrin-71 is a peptide hormone belonging to the gastrin family, playing a vital role in the regulation of gastrointestinal functions. Known for its stimulatory effects, gastrin prompts the stomach mucosa to produce and secrete hydrochloric acid, essential for the digestion of food. Additionally, it influences the pancreas, triggering the secretion of digestive enzymes crucial for nutrient breakdown. Gastrin-71 further contributes to gastrointestinal dynamics by stimulating smooth muscle contraction, enhancing blood circulation, and increasing water secretion in both the stomach and intestine. These multifaceted actions highlight the importance of Gastrin-71 in orchestrating various physiological processes crucial for efficient digestion and nutrient absorption.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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