

Canine Gastrin (GAST) ELISA Kit

Catalog No: #EK11252



Package Size: #EK11252-1 48T #EK11252-2 96T

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Description

Product Name	Canine Gastrin (GAST) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Canine (Canis familiaris; Dog)
Other Names	GAS;
Accession No.	P01353
Uniprot	P01353
GeneID	100685087;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:12.35-1000 pg/mL

Sensitivity:4.95 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate GAST in samples. An antibody specific for GAST has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGAST present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GAST is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of GAST bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Gastrin is a major physiological regulator of gastric acid secretion. It also has an important trophic or growth-promoting influence on the gastric mucosa. Gastrin is synthesized in G cells, which are located in gastric pits, primarily in the antrum region of the stomach and binds receptors found predominantly on parietal and enterochromaffin-like cells.In humans, gastrin is a hormone that stimulates secretion of gastric acid by the parietal cells of the stomach.

It is released by G cells in the stomach and duodenum.Gastrin is a linear peptide hormone produced by G cells of the duodenum and in the pyloric antrum of the stomach. In the Zollinger-Ellison syndrome, gastrin is produced at excessive levels, often by a gastrinoma of the antrum or the pancreas.

Note: This product is for in vitro research use only