Datasheet for ABIN4889773

Gastrin-Releasing Peptide ELISA Kit

1 Image

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Overview

Quantity:	96 tests
Target:	Gastrin-Releasing Peptide (GRP)
Reactivity:	Human, Rat, Mouse
Method Type:	Competition ELISA
Detection Range:	0.1-1.000 ng/mL
Minimum Detection Limit:	0.1 ng/mL
Application:	ELISA

Product Details

Purpose:	Human/Mouse/Rat GRP EIA Kit optimized for serum, plasma, and cell culture supernatants. Competition-based ELISA on a 96-well strip plate.
Sample Type:	Plasma, Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This EIA kit is designed to detect human, mouse, and rat Gastrin-releasing peptide.
Sensitivity:	0.4 ng/mL
Characteristics:	• Strip plates and additional reagents allow for use in multiple experiments • Quantitative protein detection • Establishes normal range • The best products for confirmation of antibody array data

Product Details

Components:	• Pre-Coated 96-well Strip Microplate • Wash Buffer • Standard Peptide • Assay Diluent(s) • Biotinylated Peptide • HRP-Streptavidin • TMB One-Step Substrate • Stop Solution • Assay Diagram • Positive Control Sample • Capture Antibody • User Manual
Material not included:	• Distilled or deionized water • Precision pipettes to deliver 2 µL to 1 mL volumes • Adjustable 1-25 mL pipettes for reagent preparation • 100 mL and 1 liter graduated cylinders • Tubes to prepare standard and sample dilutions • Orbital shaker • Aluminum foil • Saran Wrap • Absorbent paper • Microplate reader capable of measuring absorbance at 450nm • SigmaPlot software (or other software that can perform four-parameter logistic regression models)

Target Details

Target:	Gastrin-Releasing Peptide (GRP)
Alternative Name:	GRP (GRP Products)
Gene ID:	2922
UniProt:	P07492
Pathways:	Peptide Hormone Metabolism, Hormone Activity

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	100 µL
Plate:	Pre-coated

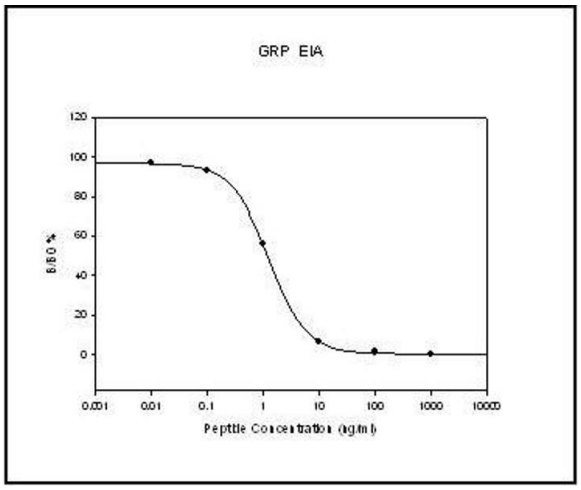
Application Details

Protocol:	1. Prepare all reagents, samples and standards as instructed. 2. Add 100 µL detection antibody to each well. 3. Incubate 1.5 h at RT or O/N at 4 °C. 4. Add 100 µL standard or sample to each well. 5. Incubate 2.5 h at RT. 6. Add 100 µL prepared streptavidin solution. 7. Incubate 45 min at RT. 8. Add 100 µL TMB One-Step Substrate Reagent to each well. 9. Incubate 30 min at RT. 10. Add 50 µL Stop Solution to each well. 11. Read plate at 450 nm immediately.
Reagent Preparation:	Recommended Dilution for serum and plasma samplesHuman: 2x / Mouse: 8x / Rat: 2x
Restrictions:	For Research Use only

Handling

Storage:	-20 °C
Storage Comment:	Standard, biotinylated peptide, and positive control should be stored at -20°C after arrival. Avoid multiple freeze-thaws. The remaining kit components may be stored at 4°C. Opened microplate wells and antibody (Item N) may be stored for up to 1 month at 2° to 8°C. Return unused wells to the pouch containing desiccant pack and reseal along entire edge.
Expiry Date:	6 months

Images



ELISA

Image 1. Standard Curve