Datasheet for ABIN5526763

Glucagon ELISA Kit

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Overview

Quantity:	96 tests
Target:	Glucagon (GCG)
Reactivity:	Various Species
Method Type:	Sandwich ELISA
Detection Range:	8.42-5000 pg/mL
Minimum Detection Limit:	8.42 pg/mL
Application:	ELISA

Product Details

Purpose:	This assay employs the quantitative sandwich enzyme immunoassay technique for the quantitative detection of Glucagon.
Sample Type:	Plasma, Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Glucagon
Components:	plate, standard, diluent
Material not included:	pipettes, tubes, reader

Target Details

Target:	Glucagon (GCG)

Target Details

Alternative Name:	Glucagon (GCG Products)
Background:	Glucagon is a 29-amino acid polypeptide, produced by alpha cells of the pancreas. The polypeptide has a molecular weight of 3485 Da that plays a critical role in glucose metabolism and homeostasis. It works to raise the concentration of glucose in the bloodstream. It is also used as a medication to treat a number of health conditions. Its effect is opposite to that of insulin, which lowers the glucose. The pancreas releases glucagon when the concentration of glucose in the bloodstream falls too low. Glucagon causes the liver to convert stored glycogen into glucose, which is released into the bloodstream. High blood-glucose levels, on the other hand, stimulate the release of insulin. Glucagon allows glucose to be taken up and used by insulin-dependent tissues. Thus, glucagon and insulin are part of a feedback system that keeps blood glucose levels stable. Abnormally elevated levels of glucagon may be caused by pancreatic tumors, such as glucagonoma, symptoms of which include necrolytic migratory erythema, reduced amino acids, and hyperglycemia. It may occur alone or in the context of multiple endocrine neoplasia type 1.
NCBI Accession:	NM_002054
UniProt:	P01275
Pathways:	Positive Regulation of Peptide Hormone Secretion, Peptide Hormone Metabolism, cAMP Metabolic Process, Regulation of Carbohydrate Metabolic Process, Feeding Behaviour, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Sample Volume:	100 µL
Assay Time:	3 - 4 h
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Buffer:	0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	4 °C