Test Definition: FPCNS

Pancreastatin

Overview

Method Name

Enzyme immune assay (EIA)

NY State Available

Yes

Specimen

Specimen Type

Serum SST

Specimen Required

Patient preparation:

Patient must be fasting 10-12 hours prior to collection of specimen.

Patient should not be on any medications that may influence Insulin levels, if possible, for at least 48 hours prior to collection.

Specimen Type: SST Serum

Container/Tube: Serum gel

Submission Container/Tube: Plastic vial

Specimen Volume: 2 mL

Collection Instructions: Draw blood in a serum gel tube(s) and allow samples to clot for 2 hours at room temperature or overnight at 4C before centrifugation for 15 min at approximately 1000xg and freeze immediately. Send 2 mL of serum frozen in a plastic vial.

Specimen Minimum Volume

1 mL

Reject Due To

Hemolysis	Mild reject; Gross reject
Lipemia	Mild reject; Gross reject
Icterus	Mild reject; Gross reject
Other	Specimens received unfrozen; Specimens received refrigerated; Specimens outside of listed stability

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum SST	Frozen	180 days	

Clinical and Interpretive

Clinical Information

Pancreastatin (PST), also called chromogranin A amide, is a 49-amino acid peptide that was first isolated from porcine pancreas. Pancreastatin is one of a number of biologically active peptides produced by proteolysis of the precursor molecule chromogranin A (CGA). It was first described as an inhibitor of insulin secretion, but since then many different effects have been reported.

Pancreastatin is functional in humans in vivo, affecting both carbohydrate and lipid metabolism. Indeed, its actions are potent and specific. Pancreastatin is cleaved from CHGA in hormone storage granules in vivo, and its plasma concentration varies in human disease. The pancreastatin region of CHGA gives rise to three naturally occurring human variants, one of which (Gly297Ser) occurs in the functionally important carboxyl terminus of the peptide and substantially increases the peptideâ€™s potency to inhibit cellular glucose uptake. These observations establish a role for pancreastatin in human intermediary metabolism and disease and suggest that qualitative hereditary alterations in pancreastatinâ€™s primary structure may give rise to individual differences in glucose disposition.

Historically analysis of pancreastatin levels has been utilized as a biomarker to establish diagnosis, and in prediction of disease recurrence, potential outcome, and efficacy of therapy in neuroendocrine tumors (NETs). However, there is growing literature on the limitations of use of monoanalytes, such as PST & Chromogranin A, for NET assessment, although conversely Chromogranin A and derived peptides are still perceived as most valuable markers of NETs.

Concurrently there is increasing body of evidence on the importance of bioactive peptide fragments of Chromogranin A, including PST, in a spectrum of regulatory activities, important to maintaining homeostasis, involving the endocrine, immune, and cardiovascular systems. Hence the use of PST testing, and knowledge on the clinical implications is actively evolving towards a broader testing population.

Reference Values

Normal: 100 - 288.7 pg/mL

Performance

PDF Report

No

Day(s) Performed

Monday through Wednesday

Report Available

7 to 11 days

Performing Laboratory Location

BioAgilytix Diagnostics

Fees and Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact Customer Service.

Test Classification

The performance characteristics of the listed assay was validated by BioAgilytix Diagnostics. The US FDA has not approved or cleared this test. The results of this assay can be used for clinical diagnosis without FDA approval. BioAgilytix Diagnostics is a CLIA certified, CAP accredited laboratory for performing high complexity assays such as this one.

CPT Code Information

86316

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
FPCNS	Pancreastatin	49013-6

Result ID	Test Result Name	Result LOINC Value
FPCNS	Pancreastatin	49013-6