MAYO CLINIC LABORATORIES

Test Definition: FNEU2

Neurotensin

Overview

Method Name
Direct Radioimmunoassay

NY State Available
No

Specimen

Specimen Type
Z-Tube Plasma

Specimen Required
Patient preparation:
1. Fasting: 10 to 12 hours
2. Patient should not be on any antacid medication or medications that affect gastroentero-intestinal function, if possible, for at least 48 hours prior to collection.
Supplies: Z-Tube Preservative Inter Science Institute (T701)
Collection Container/Tube: Z-tube
Submission Container/Tube: Plastic vial
Specimen Volume: 3 mL plasma
Collection Instructions:
1. Draw 10 mL of blood directly into special Z-tube
2. As soon as possible, centrifuge and aliquot plasma into a plastic vial.
3. Freeze immediately after separation.
4. Ship frozen.

Specimen Minimum Volume
Plasma: 1 mL

Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	Reject
Specimens not collected in Z-Tube	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Z-Tube Plasma	Frozen	180 days	

Clinical & Interpretive

Clinical Information

Neurotensin is a 13 amino acid peptide produced primarily by endocrine cells of the ileal mucosa. Physiological actions of neurotensin include hypertension, vasodilation, hyperglycemia, and inhibition of gastric motility. Its C-terminus is similar to angiotensin I. It is a potent analgesic affecting hypothermia, muscle relaxation, and decreased motor activity. Pancreatic polypeptide secretion is strongly stimulated by neurotensin. Neurotensin appears to cause the release of luteinizing hormone-releasing hormone and corticotropin releasing hormone effecting the release of luteinizing hormone, follicle stimulating hormone, and ACTH but not thyroid-stimulating hormone or growth hormone. Neurotensin also stimulates pancreatic bicarbonate and intestinal secretion. Neurotensin levels are stimulated by food and bombesin. Elevated levels have been found in pancreatic endocrine tumors, oat cell, squamous cell, and adenocarcinomas. Elevated levels have been found to cause watery diarrhea.

Reference Values

50-100 pg/mL

Cautions

The reference interval has been established using the ISI preservative indicated for this test. No other sample types are acceptable.

Values obtained with different methods, laboratories, or kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

Clinical Reference

1. Shulkes A, Chick P, Wong H, Walsh JH. A radioimmunoassay for neurotensin in human plasma. Clin Chim Acta. 1982;125(1):49-58. doi:10.1016/0009-8981(82)90044-4

2. Carraway RE, Mitra SP, Feurle GE, Hacki WH. Presence of neurotensin and neuromedin-N within a common precursor from a human pancreatic neuroendocrine tumor. J Clin Endocrinol Metab. 1988;66(6):1323-1328. doi:10.1210/jcem-66-6-1323

Performance

PDF Report

Referral

Day(s) Performed

Monday, Thursday

Test Definition: FNEU2

Neurotensin

Report Available

12 to 16 days

Performing Laboratory Location

Inter Science Institute

Fees & 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 account representative. For assistance, contact Customer Service.

Test Classification

This test has not been cleared or approved by the US Food and Drug Administration.
This test was developed and its performance characteristics determined by Inter Science Institute. Values obtained with different methods, laboratories, or kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

CPT Code Information

83519

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FNEU2	Neurotensin	2655-9

Result ID	Test Result Name	Result LOINC® Value
FNEU2	Neurotensin	2655-9