



Growth Differentiation Factor 11 (GDF11) BioAssay™ ELISA Kit (Human)

Catalog number

025479

Supplier

United States Biological

The Human Growth Differentiation Factor (GDF11) ELISA Kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of GDF11 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.

Detection Range

15.6-1000pg/ml

Sensitivity

5.9pg/ml

Intra-Assay CV

<10%

Inter-Assay CV

<12%

Kit Components

*025479A: Microtiter Strips, 1x48 wells or 1x96 wells, Pre-coated, ready to use

*025479B: Standard, 2x1 vial

025479C: Standard Diluent, 1x10ml or 1x20ml

*025479D: Detection Reagent A (green), 1x60ul or 1x120ul

*025479E: Detection Reagent B (red), 1x60ul or 1x120ul

025479F: Assay Diluent A, 1x6ml or 1x12ml

025479G: Assay Diluent B, 1x6ml or 1x12ml

025479H: TMB Substrate, 1x4.5ml or 1x9ml

*025479J: Positive Control, 43.8pg/ml, 1x1vial

025479K: Stop Solution, 1x1ml or 1x6ml

025479L: Wash Buffer, 30X, 1x10ml or 1x20ml

Precaution

The Stop Solution (025479K) suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.

Notes on 025479J - Positive Control

Intended Use

The control vials are from a human serum sample known to contain the target protein. It will provide a positive result in the ELISA assay, which indicates that the kit is optimized and working properly.

Characteristics



The control vials contain human GDF11 in human serum (lyophilized powder). Note: The human based serum used in this product are screened for HIV, Hepatitis A, B, C, HTLV and Syphilis.

Expected Value

43.8pg/ml

Usage

Dissolve with 150ul standard diluent and let stand for 10 minutes. Mix gently before use. In the experiment, add 100ul to an appropriate well of the plate and test its concentration along with standards and samples. Note: Upon receipt store Positive Control vial at -20°C. After reconstitution, store Positive Control vial at 4°C and use within 5 days

Storage and Stability:

Store *025479A, *025479B, *025479D, and *025479E *025479J at -20°C. After reconstitution of *025479J, store at 4°C and use within 5 days. . Store all the other components at 4°C. Unused kit is stable for 6 months after receipt. Once kit components are opened, it is highly recommended to use remaining reagents within 1 month provided this is within the expiration date of the kit. For maximum recovery of product, centrifuge the original vials after thawing and prior to removing the cap.

Assay Procedure Summary

1. Prepare all reagents, samples and standards.
2. Add 100ul standard or sample to each well. Incubate 2 hours at 37°C.
3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37°C.
4. Aspirate and wash 3 times.
5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37°C.
6. Aspirate and wash 5 times.
7. Add 90ul TMB Substrate. Incubate 15-25 minutes at 37°C.
8. Add 50ul Stop Solution. Read at 450nm immediately.

Storage

4°C/-20°C

Tests

6.4pg/ml

Sensitivity

100ul

Sample Volume

Serum, plasma, tissue homogenates and other biological fluids

Sample Matrix

15.6-1000pg/ml

Detection Range

Colorimetric

Antigen Source

4896