The RD191113100R Human Prostaglandin D Synthase (Lipocalin-type) ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human prostaglandin D synthase (L-PGDS, beta-trace protein, BTP).

- For research use only
- The total assay time is less than 3 hours
- The kit measures prostaglandin D synthase in serum, plasma (EDTA, citrate, heparin), urine and cerebrospinal fluid (CSF)
- Assay format is 96 wells
- Quality Controls are human serum based
- Standard is recombinant protein based
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application:
- Renal disease
- Heart disease
- Neurological disease
**Test principle**

In the BioVendor Human Prostaglandin D Synthase (Lipocalin-type) ELISA, standards, quality controls and samples are incubated in microtiter plate wells pre-coated with polyclonal antihuman L-PGDS antibody. After 60 minutes incubation and washing, polyclonal antihuman LPGDS antibody, conjugated with horseradish peroxidase (HRP) is added to the wells and incubated with captured L-PGDS for 60 minutes. Following another washing step, the remaining HRP conjugate is allowed to react with the substrate solution (TMB). The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of L-PGDS. A standard curve is constructed by plotting absorbance values against concentrations of L-PGDS standards, and concentrations of unknown samples are determined using this standard curve.

**Summary of protocol**

- Reconstitute QCs and Master Standard and prepare set of Standards
- Dilute samples and QCs 100×
- Add 100 μl Standards, QCs and samples
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 μl Conjugate Solution
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 μl Substrate Solution
- Incubate at RT for 10 min
- Add 100 μl Stop Solution
- Read absorbance and calculate results

**Related products**

- Prostaglandin D Synthase Human E. coli His RD172113100
- Prostaglandin-D Synthase (Lipocalin-Type) Human, Rabbit Polyclonal Antibody RD181113100
- Prostaglandin-D Synthase (Lipocalin-Type) Human, Sheep Polyclonal Antibody RD184113100

**Absorbance at 450 nm**

![Graph showing absorbance values against concentrations of human BTP (ng/ml)](image-url)

**Visit www.biovendor.com to find more information about BioVendor products.**

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