DetectX® PGE₂ Multi-Format ELISA Kits

PGE₂ is produced in a wide variety of tissues and in several pathological conditions, including: inflammation, arthritis, fever, tissue injury, endometriosis and a variety of cancers.

Other biological actions of PGE₂ include vasodilation modulation of sleep/wake cycles, and facilitation of human immunodeficiency virus replication.

It elevates cAMP levels, stimulates bone resorption, and has thermoregulatory effects. It has been shown to be a regulator of sodium excretion and renal hemodynamics.

DetectX® PGE₂ ELISA KITS (K051-H1/H5/H1W/H5W)

The PGE₂ monoclonal (3H10) developed for use in this kit has some truly amazing properties:

- **Measure** PGE₂ between 1,000-2 pg/mL
- **Super Fast Kinetics**: Same Assay Range at 2 or 16hrs
- **Incredible Sensitivity**: Lowest Standard < 2 pg/mL
- **Sample types**: serum, plasma, saliva, urine, tissue culture media
- **Measure** up to 39 or 231 in duplicate
- **Super Low Sample Volume Options**
- **Versatile** - Choice of incubation time, sensitivity, and sample volume
- **Cited** in over 60 publications

RELATED DetectX® KITS

- Cyclic AMP Direct ELISA Kits (K019-H1/H5)
- Cyclic AMP Direct Chemiluminescent ELISA Kits (K019-C1/C5)
- Cyclic GMP Direct ELISA Kits (K065-H1/H5)
- Cyclic GMP Direct Chemiluminescent ELISA Kits (K020-C1/C5)
- Nitric Oxide (NO) Colorimetric Detection Kit (K023-H1)
- Protein Kinase A (PKA) Colorimetric Activity Kit (K027-H1)
**Intra Assay Precision**
Three human samples were diluted with Assay Buffer and run in replicates of 20 in an assay. The mean and precision of the calculated Prostaglandin E$_2$ concentrations were:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Prostaglandin E$_2$ Conc. (pg/mL)</th>
<th>%CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11.7</td>
<td>12.3</td>
</tr>
<tr>
<td>2</td>
<td>98.6</td>
<td>6.3</td>
</tr>
<tr>
<td>3</td>
<td>131.2</td>
<td>4.9</td>
</tr>
</tbody>
</table>

**Inter Assay Precision**
Three human samples were diluted with Assay Buffer and run in duplicates in seventeen assays run over multiple days by four operators. The mean and precision of the calculated Prostaglandin E$_2$ concentrations were:

<table>
<thead>
<tr>
<th>Sample</th>
<th>Prostaglandin E$_2$ Conc. (pg/mL)</th>
<th>%CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12.3</td>
<td>8.8</td>
</tr>
<tr>
<td>2</td>
<td>100.5</td>
<td>8.1</td>
</tr>
<tr>
<td>3</td>
<td>134.7</td>
<td>9.8</td>
</tr>
</tbody>
</table>

**Comparative Typical Data - All Format Options**

Overnight Data is from the **Regular Format** (50uL).

Run your own standard curves for calculation of results. Do not use this data.