

CERTIFICATE OF ANALYSIS

Product: HSPG2 ELISA Kit (Human)
SKU: OKEH00535
Lot: KH0597
Expiration Date: 2024.03

Performance Characteristics:

| | | |
|--------------------------|--------------|-------------------|
| Intra-Assay CV | $\leq 5.5\%$ | Passed |
| Inter-Assay CV | $\leq 7.9\%$ | Passed |
| Limit of Detection (LOD) | | ≤ 0.31 ng/mL |
| Assay Range | | 0.625 - 40 ng/mL |

Standard Preparation:

Prepare the standards immediately before use. For each experiment, add 2 mL of Sample Diluent to the 80 ng Lyophilized HSPG2 standard. Mix gently until dissolved. Leave the vial at ambient temperature for 15 minutes.

Prepare a set of diluted standards as indicated in the chart below:

| Standard Number (Tube) | Standard To Dilute | Volume Standard To Dilute (uL) | Volume Sample Diluent Buffer (uL) | Total Volume (uL) | Final Concentration (ng/mL) |
|------------------------|-----------------------------|--------------------------------|-----------------------------------|-------------------|-----------------------------|
| 1 | Reconstitute HSPG2 Standard | N/A | N/A | 2,000 | 40 |
| 2 | 40 | 300 | 300 | 600 | 20 |

| Standard Number (Tube) | Standard To Dilute | Volume Standard To Dilute (uL) | Volume Sample Diluent Buffer (uL) | Total Volume (uL) | Final Concentration (ng/mL) |
|------------------------|--------------------|--------------------------------|-----------------------------------|-------------------|-----------------------------|
| 3 | 20 | 300 | 300 | 600 | 10 |
| 4 | 10 | 300 | 300 | 600 | 5.0 |
| 5 | 5.0 | 300 | 300 | 600 | 2.5 |
| 6 | 2.5 | 300 | 300 | 600 | 1.25 |
| 7 | 1.25 | 300 | 300 | 600 | 0.625 |
| 8 | N/A | 0 | 300 | 300 | 0.0 (Blank) |



Typical Expected Data

Standard Curve and Calculations ONLY. Do not use below report for result calculations. A standard curve should be generated each time the test is performed.

| Standard Number | Concentration (ng/mL) | Background Adjusted OD Value |
|-----------------|-----------------------|------------------------------|
| 1 | 40 | 2.792 |
| 2 | 20 | 2.133 |
| 3 | 10 | 1.589 |
| 4 | 5.0 | 1.135 |
| 5 | 2.5 | 0.656 |
| 6 | 1.25 | 0.325 |

| Standard Number | Concentration (ng/mL) | Background Adjusted OD Value |
|-----------------|-----------------------|------------------------------|
| 7 | 0.625 | 0.145 |

Standard Curve Graph

