





Human Fragile X mental retardation 1 protein(FMR1) ELISA kit

| Product Code | CSB-EL008756HU | | |
|---------------------------------|---|--|--|
| Abbreviation | FMR1 | | |
| Protein Biological Process 1 | Transport | | |
| Target Name | fragile X mental retardation 1 | | |
| Uniprot No. | Q06787 | | |
| Alias | FMRP, FRAXA, MGC87458, POF, POF1, premature ovarian failure 1 | | |
| Product Type | ELISA Kit | | |
| Immunogen Species | Homo sapiens (Human) | | |
| Protein Biological Process 3 | Transport | | |
| Sample Types | serum, plasma, tissue homogenates | | |
| Detection Range | 15.6 pg/mL-1000 pg/mL | | |
| Sensitivity | 3.9 pg/mL | | |
| Assay Time | 1-5h | | |
| Sample Volume | 50-100ul | | |
| Detection Wavelength | 450 nm | | |
| Lead Time | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx. | | |
| Research Area | Signal Transduction | | |
| Gene Names | FMR1 | | |
| Tag Info | quantitative | | |
| Protein Description | Sandwich | | |
| Description | This Human FMR1 ELISA Kit was designed for the quantitative measurement of Human FMR1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL. | | |
| Target Details | This protein binds RNA and is associated with polysomes. The encoded protein may be involved in mRNA trafficking from the nucleus to the cytoplasm. A trinucleotide repeat (CGG) in the 5 UTR is normally found at 6-53 copies, but an expansion to 55-230 repeats is the cause of fragile X syndrome. Expansion of the trinucleotide repeat may also cause one form of premature ovarian failure | | |

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(POF1).

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to

assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human FMR1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

| | Sample | Serum(n=4) |
|-----|-----------|------------|
| 1:1 | Average % | 89 |
| | Range % | 85-93 |
| 1:2 | Average % | 107 |
| | Range % | 99-111 |
| 1:4 | Average % | 92 |
| | Range % | 85-95 |
| 1:8 | Average % | 99 |
| | Range % | 91-103 |
| | | |

Recovery

The recovery of human FMR1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

| Sample Type | Average % Recovery | Range |
|-------------------|--------------------|--------|
| Serum (n=5) | 91 | 85-95 |
| EDTA plasma (n=4) | 98 | 90-101 |

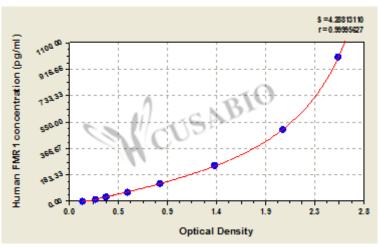
Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.









pg/ml OD1 OD2 Average Corrected

1000 2.554 2.522 2.538 2.399 500 2.034 2.008 2.021 1.882 250 1.385 1.367 1.376 1.237 125 0.871 0.854 0.863 0.724 62.5 0.556 0.566 0.561 0.422 31.2 0.352 0.367 0.360 0.221 15.6 0.264 0.259 0.262 0.123

0 0.141 0.137 0.139

Msds

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