Human Wnt inhibitory factor 1(WIF1) ELISA kit

Product Code	CSB-EL026113HU
Abbreviation	WIF1
Protein Biological Process 1	Signaling Pathway
Target Name	WNT inhibitory factor 1
Uniprot No.	Q9Y5W5
Alias	WIF-1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Wnt signaling pathway
Sample Types	serum, plasma, tissue homogenates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.7 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	Stem Cells
Gene Names	WIF1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human WIF1 ELISA Kit was designed for the quantitative measurement of Human WIF1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 47 pg/mL-3000 pg/mL and the sensitivity is 11.7 pg/mL.
Target Details	WNT proteins are extracellular signaling molecules involved in the control of embryonic development. This gene encodes a secreted protein, which binds WNT proteins and inhibits their activities. This protein contains a WNT inhibitory factor (WIF) domain and 5 epidermal growth factor (EGF)-like domains. It may be involved in mesoderm segmentation. This protein is found to be present in fish, amphibia and mammals.
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 WIF1 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 %	93
	Range %	85-106
1:2	Average %	91
	Range %	87-98
1:4	Average %	95
	Range %	89-102
1:8	Average %	95
	Range %	87-103

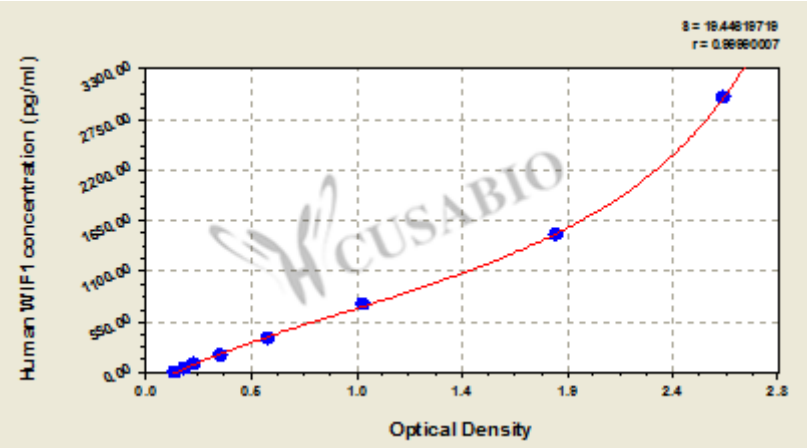
Recovery

The recovery of human WIF1 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)	96	83-105
EDTA plasma (n=4)	95	87-108

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
3000	2.663	2.517	2.590	2.445
1500	1.825	1.854	1.840	1.695
750	0.965	1.004	0.985	0.840
375	0.554	0.570	0.562	0.417
187.5	0.350	0.342	0.346	0.201
94	0.221	0.234	0.228	0.083
47	0.180	0.192	0.186	0.041
0	0.143	0.147	0.145	

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL026113HU.pdf","filename":"MSDS"}}