Human G protein-coupled bile acid receptor 1(GPBAR1) ELISA Kit

Product Code	CSB-E13937h
Abbreviation	GPBAR1
Target Name	G protein-coupled bile acid receptor 1
Uniprot No.	Q8TDU6
Alias	BG37, GPCR, GPCR19, GPR131, M-BAR, MGC40597, TGR5, G-protein coupled bile acid receptor BG37|membrane bile acid receptor|membrane-type receptor for bile acids
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/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	GPBAR1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GPBAR1 ELISA Kit was designed for the quantitative measurement of Human GPBAR1 protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.
Target Details	This gene encodes a member of the G protein-coupled receptor (GPCR) superfamily. This enzyme functions as a cell surface receptor for bile acids. Treatment of cells expressing this GPCR with bile acids induces the production of intracellular cAMP, activation of a MAP kinase signaling pathway, and internalization of the receptor. The receptor is implicated in the suppression of macrophage functions and regulation of energy homeostasis by bile acids. Alternative splicing results in multiple transcript variants encoding the same protein.
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 GPBAR1 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 %	98
	Range %	93-102
1:2	Average %	89
	Range %	85-92
1:4	Average %	107
	Range %	103-110
1:8	Average %	89
	Range %	85-94

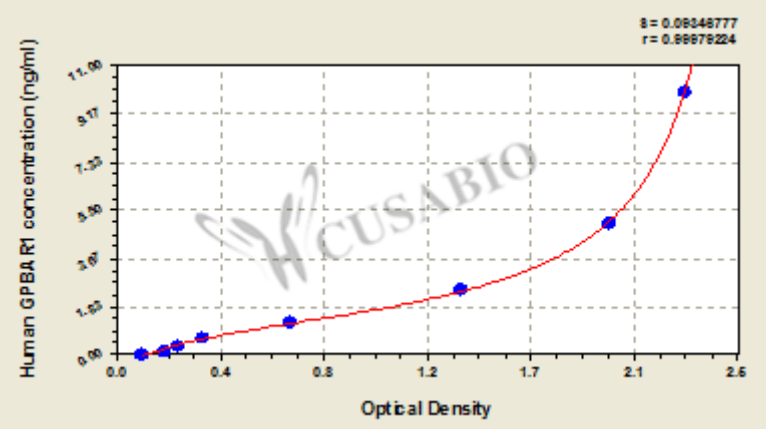
Recovery

The recovery of human GPBAR1 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)	100	95-105
EDTA plasma (n=4)	88	84-92

Typical

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



ng/ml	OD1	OD2	Average	Corrected
10	2.339	2.204	2.272	2.161
5	1.951	1.992	1.972	1.861
2.5	1.363	1.402	1.383	1.272
1.25	0.706	0.698	0.702	0.591
0.625	0.348	0.352	0.350	0.239
0.312	0.250	0.257	0.254	0.143
0.156	0.201	0.198	0.200	0.089
0	0.112	0.110	0.111	?

Msds

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