Human gamma glutamyl transpeptidase,GGT ELISA Kit

Product Code	CSB-EL009394HU
Protein Biological Process 2	Amino-acid biosynthesis and metabolism
Abbreviation	GGT1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	gamma-glutamyltransferase 1
Uniprot No.	P19440
Alias	CD224, D22S672, D22S732, GGT, GTG, MGC96892, MGC96904, MGC96963, OTTHUMP00000028921|OTTHUMP00000159078|gamma-glutamyl transpeptidase|glutamyl transpeptidase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Glutathione biosynthesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.78 mU/mL-50 mU/mL
Sensitivity	0.195 mU/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	Metabolism
Gene Names	GGT1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GGT1 ELISA Kit was designed for the quantitative measurement of Human GGT1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.78 mU/mL-50 mU/mL and the sensitivity is 0.195 mU/mL.
Target Details	The enzyme encoded by this gene catalyzes the transfer of the glutamyl moiety

of glutathione to a variety of amino acids and dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein, and is present in tissues involved in absorption and secretion. This enzyme is a member of the gamma-glutamyltransferase protein family, of which many members have not yet been fully characterized and some of which may represent pseudogenes. This gene is classified as type I gamma-glutamyltransferase. Multiple alternatively spliced variants, encoding the same protein, have been identified.

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 GGT 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 %	85
	Range %	80-90
1:2	Average %	93
	Range %	89-97
1:4	Average %	88
	Range %	84-92
1:8	Average %	104
	Range %	100-112

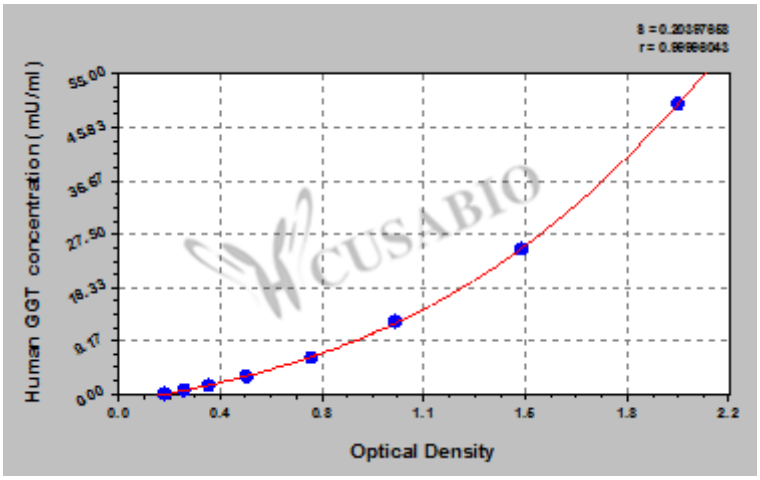
Recovery

The recovery of human GGT 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)	92	88-98
EDTA plasma (n=4)	95	90-100

Typical

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



mU/ml	OD1	OD2	Average	Corrected
50	1.991	2.069	2.030	1.846
25	1.438	1.494	1.466	1.282
12.5	0.996	1.032	1.014	0.830
6.25	0.720	0.711	0.716	0.532
3.12	0.484	0.477	0.481	0.297
1.56	0.348	0.338	0.343	0.159
0.78	0.249	0.265	0.257	0.073
0	0.181	0.186	0.184	?

Msds {"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL009394HU.pdf","filename":"MSDS"}}