Human Glycyl-tRNA synthetase(GARS) ELISA kit

Product Code	CSB-EL009262HU
Protein Biological Process 2	Amino-acid biosynthesis and metabolism
Abbreviation	GARS
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	glycyl-tRNA synthetase
Uniprot No.	P41250
Alias	CMT2D, DSMAV, GlyRS, HMN5, SMAD1, Charcot-Marie-Tooth neuropathy 2D|Charcot-Marie-Tooth neuropathy, neuronal type, D|glycine tRNA ligase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Protein biosynthesis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	Metabolism
Gene Names	GARS
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GARS ELISA Kit was designed for the quantitative measurement of Human GARS protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)2 dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human

autoimmune diseases, polymyositis or dermatomyositis.

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 GARS 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 %	96
	Range %	91-99
1:2	Average %	94
	Range %	90*98
1:4	Average %	95
	Range %	90-103
1:8	Average %	95
	Range %	89-105

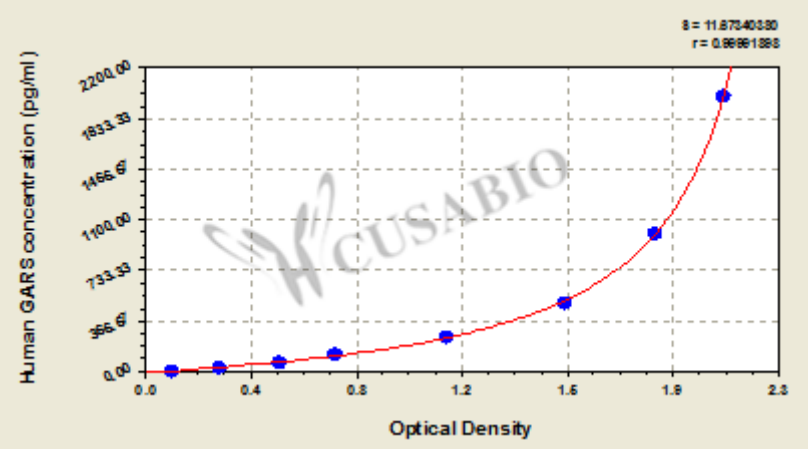
Recovery

The recovery of human GARS 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)	89	84-92
EDTA plasma (n=4)	91	85-96

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
2000	2.121	2.097	2.109	2.006
1000	1.867	1.848	1.858	1.755
500	1.538	1.527	1.533	1.430
250	1.107	1.101	1.104	1.001
125	0.701	0.699	0.700	0.597
62.5	0.497	0.492	0.495	0.392
31.25	0.283	0.275	0.279	0.176
0	0.105	0.101	0.103	

Msds

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