



Human Ganglioside GM2 activator(GM2A) ELISA kit

Product Code	CSB-EL009565HU
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	GM2A
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	GM2 ganglioside activator
Uniprot No.	P17900
Alias	SAP-3, cerebroside sulfate activator protein sphingolipid activator protein 3
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Lipid metabolism
Sample Types	serum, plasma, urine, tissue homogenates, cell lysates
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	Metabolism
Gene Names	GM2A
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GM2A ELISA Kit was designed for the quantitative measurement of Human GM2A protein in serum, plasma, urine, tissue homogenates, cell lysates. 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 gene encodes a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme beta-hexosaminidase A. Beta-hexosaminidase A, together with GM2 ganglioside activator, catalyzes the



degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene result in GM2-gangliosidosis type AB or the AB variant of Tay-Sachs disease. Alternative splicing results in multiple transcript variants.

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 GM2A 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 %	84-95
1:2	Average %	92
	Range %	87-99
1:4	Average %	100
	Range %	95-106
1:8	Average %	97
	Range %	92-102

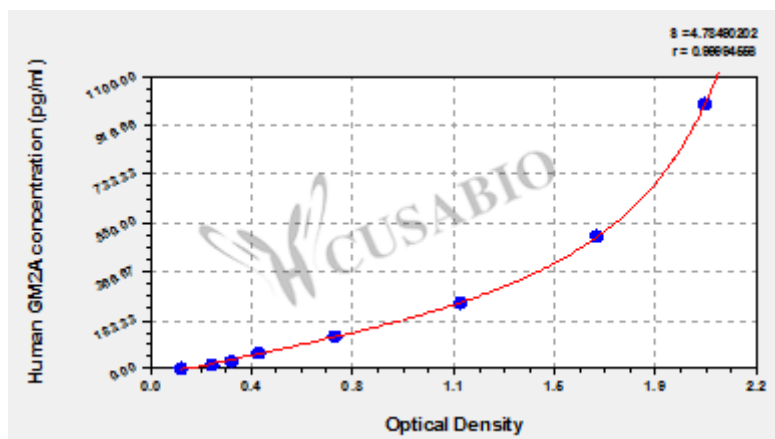
Recovery

The recovery of human GM2A 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	90-103
EDTA plasma (n=4)	90	84-96

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
1000	2.043	2.050	2.047	1.921
500	1.619	1.684	1.652	1.526
250	1.105	1.200	1.153	1.027
125	0.683	0.703	0.693	0.567
62.5	0.403	0.421	0.412	0.286
31.2	0.296	0.322	0.309	0.183
15.6	0.241	0.235	0.238	0.112
0	0.123	0.129	0.126	?

Msds

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