Mouse Heat Shock Protein 70,Hsp-70 ELISA Kit

Product Code	CSB-E08311m
Abbreviation	HSPA1A
Protein Biological Process 1	Neurobiology
Target Name	heat shock 70kDa protein 1A
Uniprot No.	Q61696
Alias	DAQB-147D11.1, FLJ54303, FLJ54370, FLJ54392, FLJ54408, FLJ75127, HSP70-1, HSP70-1A, HSP70I, HSP72, HSPA1, HSPA1B, dnaK-type molecular chaperone HSP70-1|heat shock 70kD protein 1A|heat shock-induced
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Stress response
Sample Types	serum, plasma, tissue homogenates
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	Neuroscience
Gene Names	Hspa1a
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse HSPA1A ELISA Kit was designed for the quantitative measurement of Mouse HSPA1A protein in serum, plasma, tissue homogenates. 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 intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major

histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins.

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 mouse Hsp-70 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)
1:20	Average %	91
	Range %	86-95
1:40	Average %	102
	Range %	97-107
1:80	Average %	91
	Range %	85-97
1:160	Average %	97
	Range %	91-103

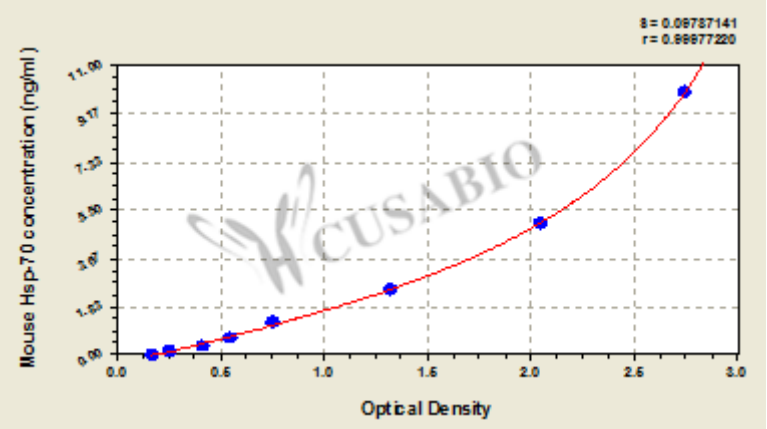
Recovery

The recovery of mouse Hsp-70 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)	95	89-98
EDTA plasma (n=4)	97	90-100

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	2.746	2.798	2.772	2.584
5	2.067	2.069	2.068	1.880
2.5	1.364	1.332	1.348	1.160
1.25	0.789	0.756	0.773	0.585
0.625	0.564	0.572	0.568	0.380
0.312	0.433	0.432	0.433	0.245
0.156	0.281	0.268	0.275	0.087
0	0.187	0.189	0.188	

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E08311m.pdf","filename":"MSDS"}}