



Rat glucocorticoid receptor,GR ELISA Kit

Product Code	CSB-E08747r
Abbreviation	NR3C1
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
Uniprot No.	P06536
Alias	GCCR, GCR, GR, GRL, glucocorticoid receptor
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Transcription
Sample Types	serum, plasma, 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	Epigenetics and Nuclear Signaling
Gene Names	Nr3c1
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat NR3C1 ELISA Kit was designed for the quantitative measurement of Rat NR3C1 protein in serum, plasma, 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 protein is a receptor for glucocorticoids that can act as both a transcription factor and as a regulator of other transcription factors. This protein can also be found in heteromeric cytoplasmic complexes along with heat shock factors and immunophilins. The protein is typically found in the cytoplasm until it binds a ligand, which induces transport into the nucleus. Mutations in this gene are a cause of glucocorticoid resistance, or cortisol, resistance. Alternate splicing, the use of at least three different promoters, and alternate translation initiation sites



result in several transcript variants encoding the same protein or different isoforms, but the full-length nature of some variants has not been determined.

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 rat GR 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 %	92
	Range %	88-98
1:2	Average %	97
	Range %	93-105
1:4	Average %	90
	Range %	85-94
1:8	Average %	96
	Range %	92-100

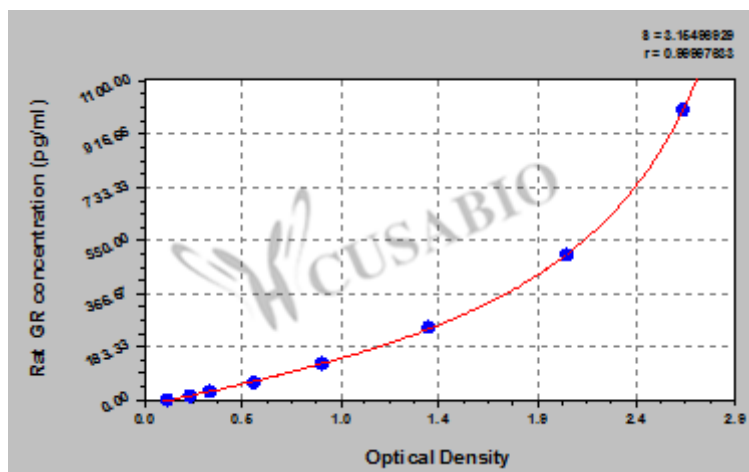
Recovery

The recovery of rat GR 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)	93	88-97
EDTA plasma (n=4)	84	80-89

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	2.597	2.657	2.627	2.507
500	2.019	2.106	2.063	1.943
250	1.376	1.409	1.393	1.273
125	0.909	0.842	0.876	0.756
62.5	0.566	0.524	0.545	0.425
31.2	0.341	0.321	0.331	0.211
15.6	0.228	0.244	0.236	0.116
0	0.123	0.117	0.120	

Msds

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