



Rat Gastrin-releasing peptide(GRP) ELISA kit

Product Code	CSB-EL009940RA
Abbreviation	GRP
Target Name	gastrin-releasing peptide
Uniprot No.	P24393
Alias	BN, GRP-10, preproGRP, proGRP, bombesin neuromedin C pre-progastrin releasing peptide
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
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	Signal Transduction
Gene Names	Grp
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat GRP ELISA Kit was designed for the quantitative measurement of Rat GRP protein in serum, plasma, tissue homogenates. 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 member of the bombesin-like family of gastrin-releasing peptides. Its preproprotein, following cleavage of a signal peptide, is further processed to produce either the 27 aa gastrin-releasing peptide or the 10 aa neuromedin C. These smaller peptides regulate numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation. These peptides are also likely to play a role in human cancers of the lung, colon, stomach, pancreas, breast, and prostate. Alternative splicing results in multiple transcript variants encoding different isoforms.

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 GRP 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)
	Average %	91
1:1	Range %	86-95
	Average %	102
1:2	Range %	97-107
	Average %	91
1:4	Range %	85-97
	Average %	97
1:8	Range %	91-103

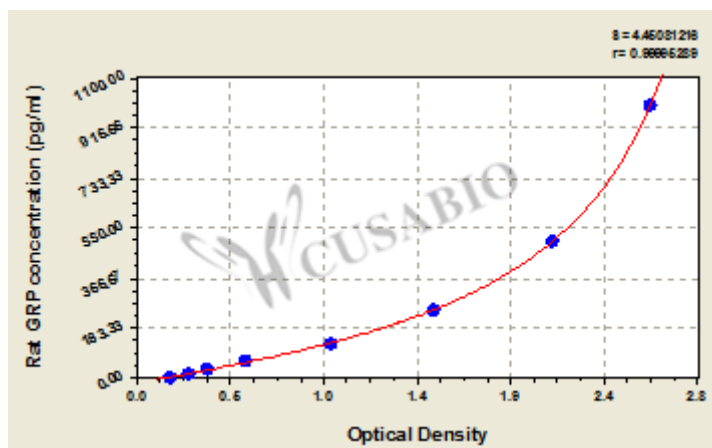
Recovery

The recovery of rat GRP 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)	92	88-96

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	2.654	2.526	2.590	2.404
500	2.147	2.048	2.098	1.912
250	1.446	1.562	1.504	1.318
125	0.982	0.996	0.989	0.803
62.5	0.568	0.551	0.560	0.374
31.2	0.372	0.361	0.367	0.181
15.6	0.278	0.274	0.276	0.090
0	0.186	0.185	0.186	?

Msds

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