for research use only

Certificate of Analysis

Product Name: High Sensitive ELISA Kit for Fibroblast Growth Factor 15 (FGF15)

Cat.No.AAA21070 Organism: Mus musculus (Mouse)

Introduction

Item	Standard	Test Result	
Description	This immunoassay kit allows for the specific measurement		
	concentration in mouse serum, plasma, tissue homo	Conform	
	lysates, cell culture supernates and other biological fluids.		
Identification	Colorimetric	Positive	
Composition	Pre-coated, ready to use 96-well strip plate	1	
	Standard (freeze dried)	2	
	Standard Diluent	1 × 20ml	
	Detection Reagent A (green)	1× 120μl	
	Detection Reagent B (red)	1× 120μl	
	Assay Diluent A	$1 \times 12ml$	Conform
	Assay Diluent B	1 × 12ml	Comorni
	TMB Substrate	1×9 ml	
	Stop Solution	1 ×6ml	
	Wash Buffer(30 x concentrate)	1 ×20ml	
	Plate sealer for 96 wells	4	
	Instruction manual	1	
Assay Range	6.25-100pg/mL		Conform

Sensitivity

The minimum detectable dose of mouse FGF15 is typically less than 2.52pg/mL.

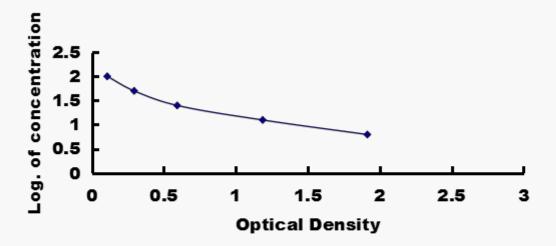
The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D. Value of 20 replicates of the zero standard added by their three standard deviations.

Standard curve

The standard curve is provided for demonstrated only. The client should perform the standard test in each independent experiment.

for research use only

ng/ml	pg/ml Standard		Average	Log of
pg/IIII			Average	concentration
6.25	1.933	1.894	1.914	0.796
12.5	1.182	1.192	1.187	1.097
25	0.576	0.609	0.593	1.398
50	0.295	0.293	0.294	1.699
100	0.103	0.111	0.107	2.000



Recovery

Different matrices were spiked with certain level of mouse FGF15 and the recovery rates were evaluated.

Matrix	Recovery range (%)	Average(%)	
mouse serum(n=5)	80-92	86	
mouse EDTA plasma(n=5)	94-105	101	
mouse heparin plasma(n=5)	79-92	86	

Linearity

The linearity of the kit was assayed by testing samples spiked with high concentration of mouse FGF15 and also several dilutions of these samples. The results were demonstrated by the percentage of calculated concentration to the expected.

Sample	1: 2	1: 4	1: 8	1: 16	
mouse serum(n=5)	85-101%	81-93%	88-106%	79-90%	
mouse EDTA plasma(n=5)	91-102%	80-91%	82-90%	86-105%	
mouse heparin plasma(n=5)	80-94%	78-105%	85-96%	81-95%	

for research use only

Precision

Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of mouse FGF15 were tested 20 times on one plate, respectively.

Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of mouse FGF15 were tested on 3 different plates, 8 replicates in each plate.

	Intra-assay Precision			Inter-assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	24	24	24
Mean (pg/ml)	8.37	25.36	73.51	8.44	27.84	72.46
SD	0.604	1.698	4.640	0.631	1.981	5.016
CV (%)	7.2	6.7	6.3	7.5	7.1	6.9

Approved Date: <u>2017.4.11</u>