Fish trypsin ELISA Kit

Product Code	CSB-EL018811FI
Abbreviation	PRSS1
Protein Biological Process 1	Developmental Protein
Target Name	protease, serine, 1 (trypsin 1)
Uniprot No.	P35031
Alias	MGC120175, MGC149362, TRP1, TRY1, TRY4, TRYP1, cationic trypsinogen|digestive zymogen|nonfunctional trypsin 1|protease, serine, 1|serine protease 1|trypsin I|trypsinogen 1|trypsinogen A
Product Type	ELISA Kit
Immunogen Species	Fish
Protein Biological Process 3	Digestion
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.156 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	Cell Biology
Gene Names	N/A
Tag Info	quantitative
Protein Description	Competitive
Description	This Fish PRSS1 ELISA Kit was designed for the quantitative measurement of Fish PRSS1 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.156 ng/mL.
Target Details	This gene encodes a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is secreted by the pancreas and cleaved to its active form in the small intestine. It is active on peptide linkages involving the carboxyl group of lysine or arginine. Mutations in this gene are associated with hereditary pancreatitis. This gene and several other trypsinogen genes are

localized to the T cell receptor beta locus on chromosome 7.

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 fish trypsin 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 %	101
	Range %	95-105
1:40	Average %	91
	Range %	84-95
1:80	Average %	106
	Range %	100-111
1:160	Average %	104
	Range %	97-108

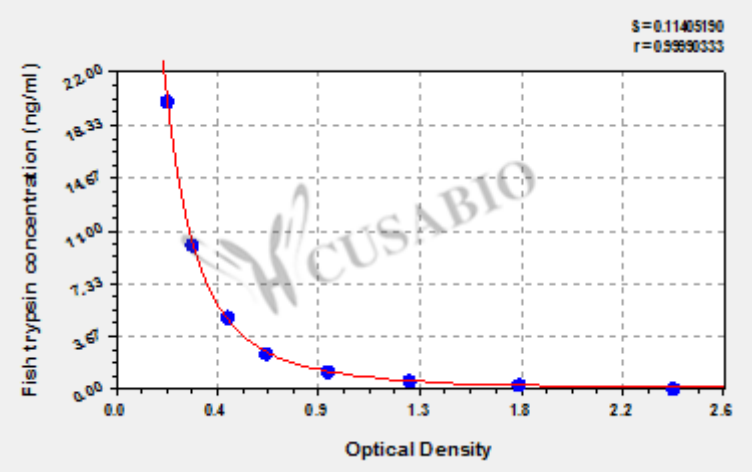
Recovery

The recovery of fish trypsin 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	87-100
EDTA plasma (n=4)	102	96-107

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
20	0.231	0.227	0.229
10	0.342	0.337	0.340
5	0.497	0.482	0.490
2.5	0.663	0.645	0.654
1.25	0.932	0.918	0.925
0.625	1.300	1.246	1.273
0.312	1.774	1.724	1.749
0	2.434	2.389	2.412