



Human Bone morphogenetic protein receptor ?,BMPR-? ELISA Kit

Product Code	CSB-E04516h
Abbreviation	BMPR2
Target Name	bone morphogenetic protein receptor, type II (serine/threonine kinase)
Uniprot No.	Q13873
Alias	BMPR-II, BMPR3, BMR2, BRK-3, FLJ41585, FLJ76945, PPH1, T-ALK, BMP type II receptor bone morphogenetic protein receptor type II bone morphogenetic protein receptor type-2 type II activin receptor-lik Bone morphogenetic protein receptor 2,BMPR-2
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 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	Cardiovascular
Gene Names	BMPR2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human BMPR2 ELISA Kit was designed for the quantitative measurement of Human BMPR2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL.

Target Details

This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of two different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands



in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension, both familial and fenfluramine-associated, and with pulmonary venoocclusive disease.

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 human BMPR-II 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 %	86-96
1:2	Average %	99
	Range %	95-102
1:4	Average %	90
	Range %	85-94
1:8	Average %	99
	Range %	92-103

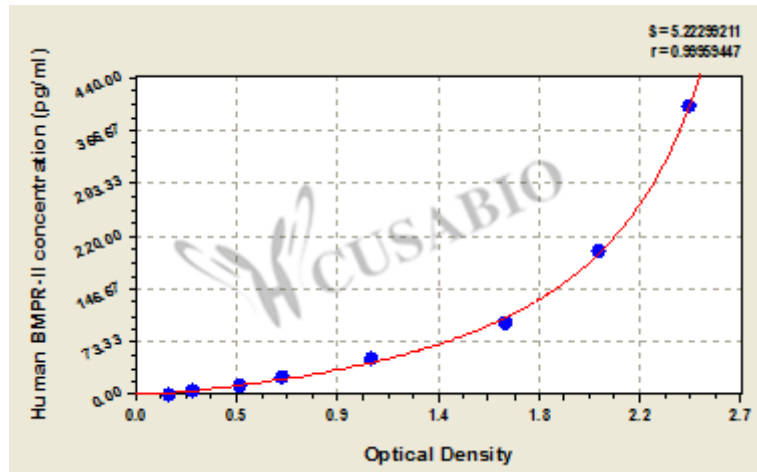
Recovery

The recovery of human BMPR-II 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	87-96
EDTA plasma (n=4)	93	88-97

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
400	2.492	2.437	2.465	2.301
200	2.054	2.076	2.065	1.901
100	1.671	1.634	1.653	1.489
50	1.074	1.043	1.059	0.895
25	0.671	0.653	0.662	0.498
12.5	0.483	0.477	0.480	0.316
6.25	0.271	0.264	0.268	0.104
0	0.162	0.166	0.164	

Msds

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