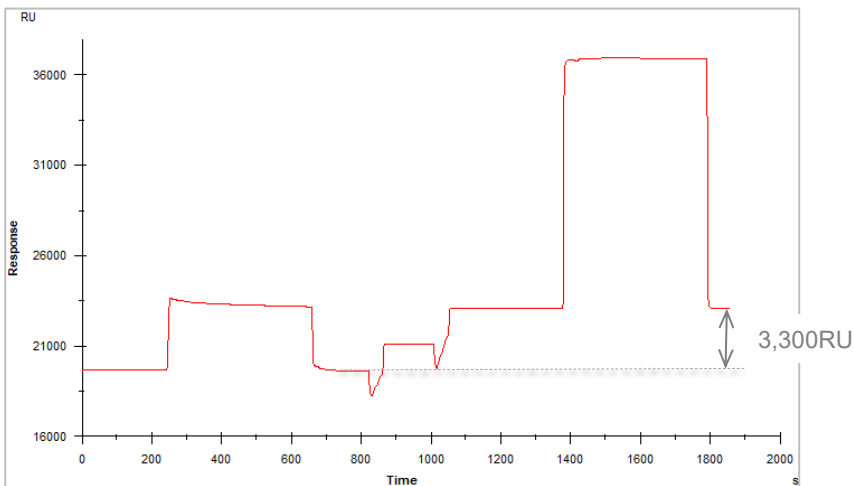


문서번호	R251028-10	분석일자	2025.08.19~2025.08.24
의뢰기관	#####	분석장비	iMSPR-Pro2X
의뢰인	#####	이메일	#####@#####.co.kr

No.	Ligand	Analyte
1	L1	A1
2	-	A2

1. Immobilization

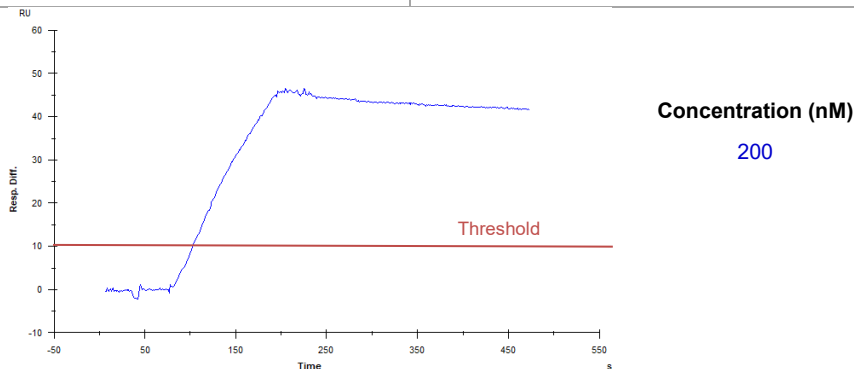
Ligand		L1		
Immobilization level		3,300 RU		
Method		Amine coupling		
Sensor chip		HC1000		
Running buffer		1x PBS		
Ch.	Process	Solution	Flow rate	Time
Flow cell 1 (Blank)	Activation	200 mM EDC+100 mM NHS	10 µl/min	7 min
	Blocking	1 M Ethanolamine*HCl	10 µl/min	7 min
Flow cell 2 (Ligand)	Activation	200 mM EDC+100 mM NHS	10 µl/min	7 min
	Ligand	10 µg/ml in 5 mM acetate buffer (pH 4.0)	5 µl/min	1+1 min
	Blocking	1 M Ethanolamine*HCl	10 µl/min	7 min



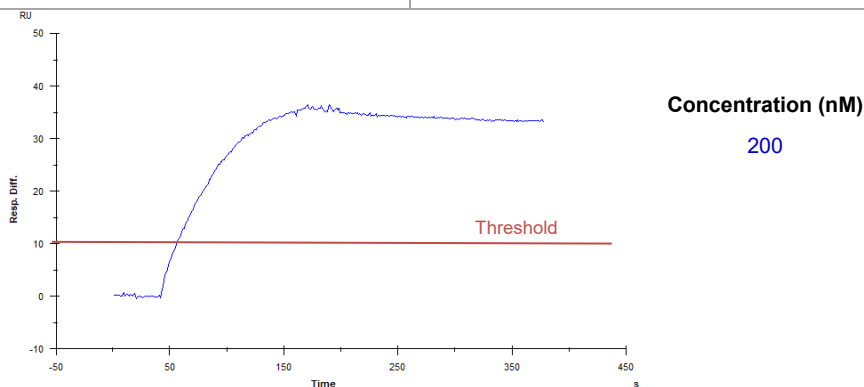
2. Binding test

Binding (Fc 2-1)		Flow rate	Time
	Association	30 µl/min	2 min
	Dissociation	30 µl/min	3 min
	Solution	1x PBS + 1mM MgCl ₂	
Regeneration (Fc 2-1)		Flow rate	Time
	Regeneration	30 µl/min	1 min x2
	Stabilization	30 µl/min	2 min
	Solution	10mM Glycine-HCl pH 1.5	

Analyte	Ligand	Test result
A1	L2	PASS



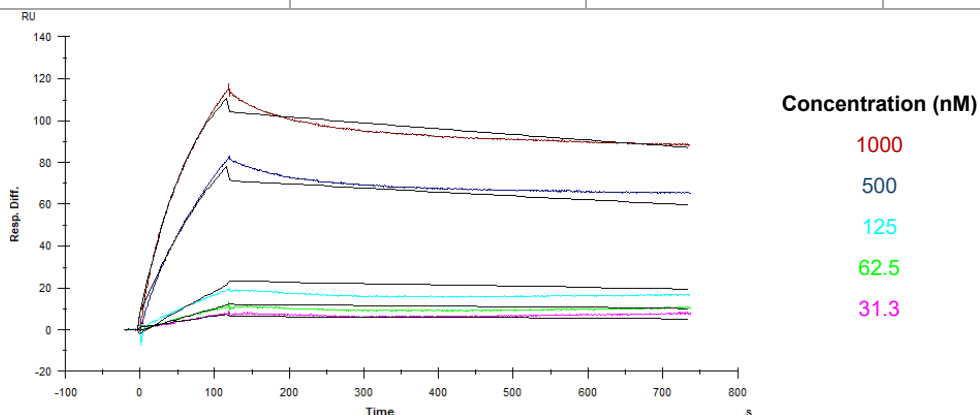
Analyte	Ligand	Test result
A2	L2	PASS



3. Kinetic evaluation

Binding (Fc 2-1)		Flow rate	Time
	Association	30 µl/min	2 min
	Dissociation	30 µl/min	10 min
	Solution	1x PBS + 1mM MgCl ₂	
Regeneration (Fc 2-1)		Flow rate	Time
	Regeneration	30 µl/min	1 min x2
	Stabilization	30 µl/min	2 min
	Solution	10mM Glycine-HCl pH 1.5	

Analyte	Ligand			Analysis model	
A1	L1			1:1 binding – Multi cycle kinetics	
k_a (1/Ms)	k_d (1/s)	K_D (M)	R_{max} (RU)	χ^2	
1.32E+04	2.89E-04	2.19E-08	133	9.11	



Analyte	Ligand			Analysis model	
A2	L2			1:1 binding – Multi cycle kinetics	
k_a (1/Ms)	k_d (1/s)	K_D (M)	R_{max} (RU)	χ^2	
1.15E+04	4.28E-04	3.73E-08	131	13.2	

