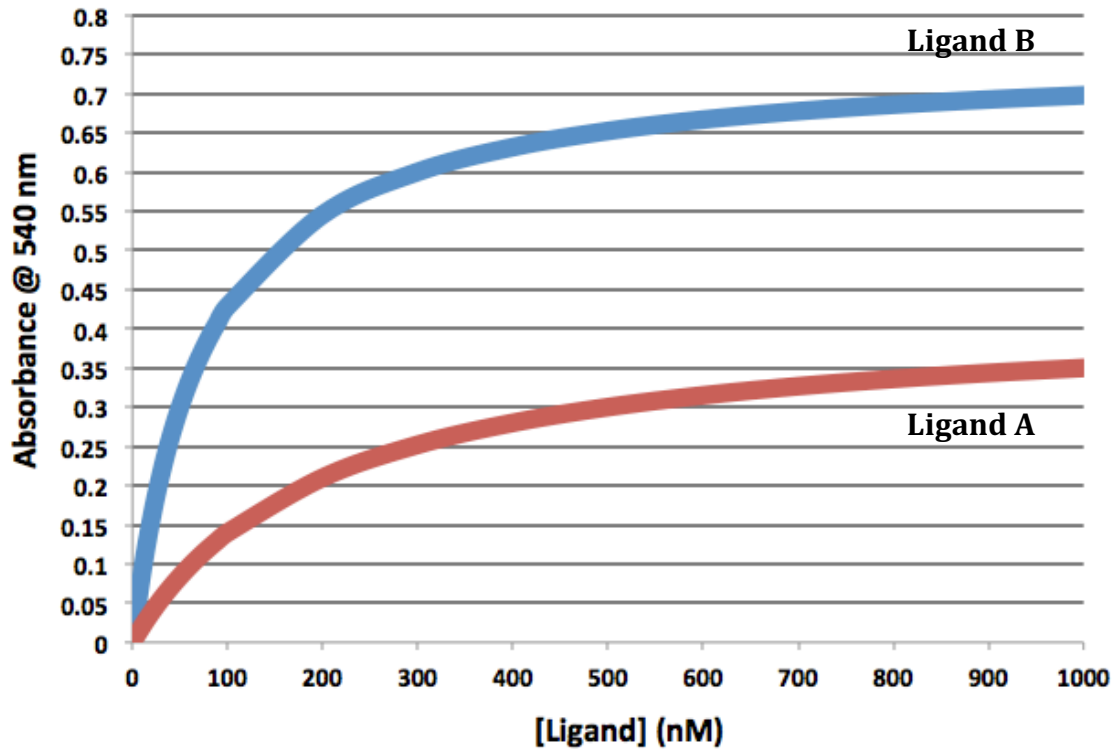


Determine the  $K_D$  for Ligand A.

1. What is the amplitude of the absorbance change when Ligand A binds?
2. What absorbance value is consistent with half of the total protein bound to Ligand A?
3. What is the  $K_D$  of Ligand A for the protein?

Determine the  $K_D$  for Ligand B.

4. What is the amplitude of the absorbance change when Ligand B binds?
5. What absorbance value is consistent with half of the total protein bound to Ligand B?
6. What is the  $K_D$  of Ligand B for the protein?
7. How does the  $K_D$  of Ligand A compare to the  $K_D$  of Ligand B?
8. Does Ligand A or Ligand B bind more tightly? Explain how you know.



Determine the  $K_D$  for Ligand A.

1. What is the amplitude of the absorbance change when Ligand A binds?
2. What absorbance value is consistent with half of the total protein bound to Ligand A?
3. What is the  $K_D$  of Ligand A for the protein?

Determine the  $K_D$  for Ligand B.

4. What is the amplitude of the absorbance change when Ligand B binds?
5. What absorbance value is consistent with half of the total protein bound to Ligand B?
6. What is the  $K_D$  of Ligand B for the protein?
7. How does the  $K_D$  of Ligand A compare to the  $K_D$  of Ligand B?
8. Does Ligand A or Ligand B bind more tightly? Explain how you know.