

Application Note

A-14

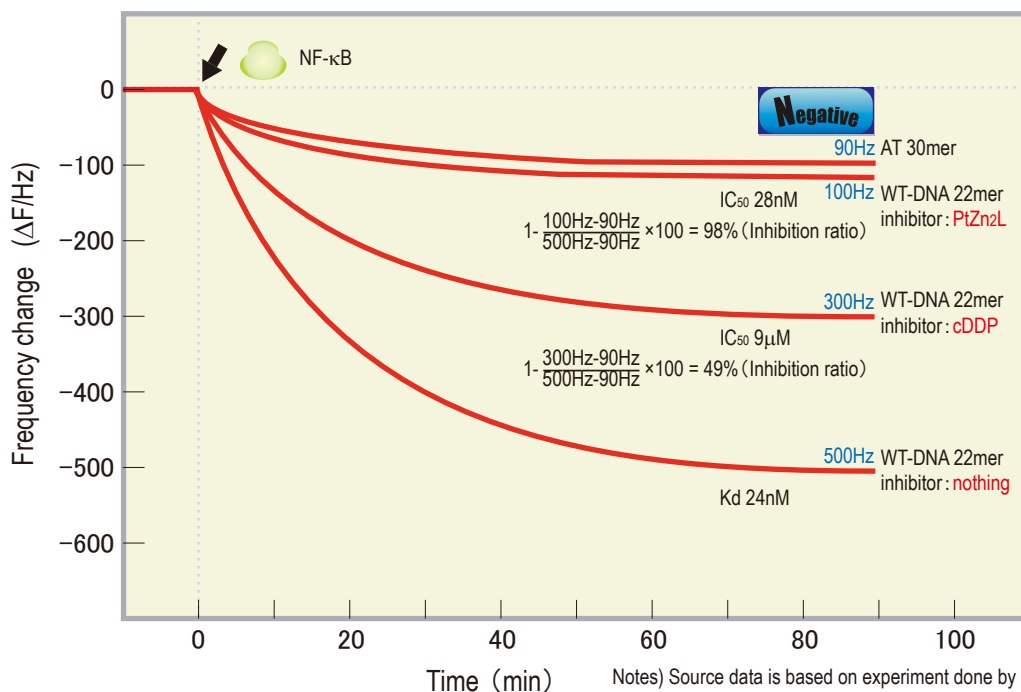
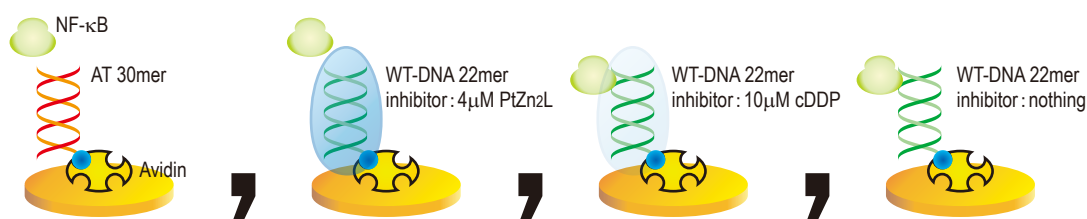
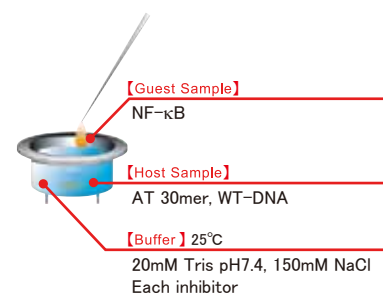
Inhibition by Metal complex for binding of Transcription factor to DNA

Materials

1. Avidin
2. Biotinylated double strand DNA (AT 30bp)
3. Biotinylated Wild Type DNA (WT 22bp)
4. NF - κB
5. Metal complex (PtZn₂L)
6. Anticancer drug Cisplatin (cDDT)

Results

1. Binding between WT-DNA and NF-κB was observed.
2. Binding amount was decreased with inhibitor.
3. Inhibition ratio was calculated by frequency change.



Applications

1. Research in inhibition mechanism of drug molecules.
2. Calculation of each inhibition ratio of binding.
3. Simple screening of drugs that have an inhibition effect.