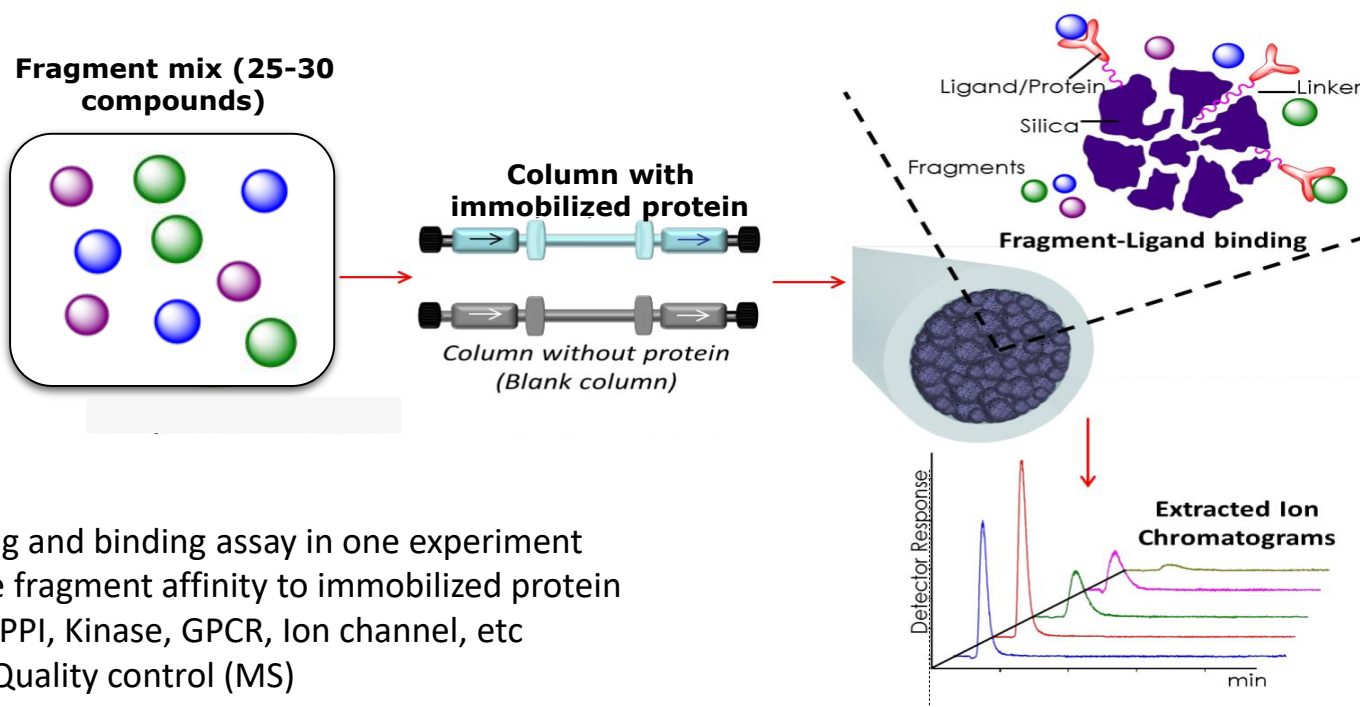
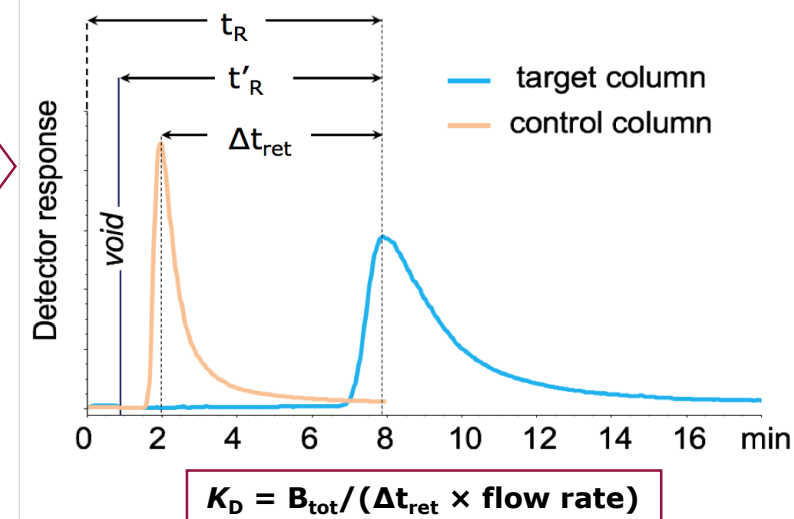


# Weak Affinity Chromatography - WAC™



## Data analysis

Affinity constant ( $K_D$ ) is calculated from the retention time difference ( $\Delta t_{ret}$ ) for the compounds on target and blank columns



## WAC™:

- Screening and binding assay in one experiment
- Measure fragment affinity to immobilized protein
- Targets: PPI, Kinase, GPCR, Ion channel, etc
- Built-in Quality control (MS)

## Key advantages of WAC™:

- Robust and accurate (validated against NMR and Xray, data available)
- Quick set-up and workflow: 3 weeks full screen turnaround
- High throughput: up to 3000-4000 compounds/week
- Low material consumption:  $\leq 5\text{mg}$  of protein
- Output - High quality data for MedChem: "hits" with  $K_D$  values

## WAC™ useful for:

- Screen for novel chemical starting points
- Assess druggability of new targets
- Find differentiated backups in mature projects
- Rescue mode for challenging targets