



About SignalChem Biotech

SignalChem Biotech is a leading Canadian life sciences company specialized in the development and production of cell signaling products. Our commitment to quality drives scientific advancements by supporting scientists in academia, pharmaceutical, and biotech industries.

Custom Services

Tailored to Suit Your Needs

SignalChem Biotech's offers tailored contract research services including recombinant protein production, compound profiling, and more. We combine expertise in protein and cell signaling biology to ensure precise solutions for your diverse research needs.



Compound Profiling

We offer compound screening services with access to a portfolio of over 1400 active enzymes to support your drug discovery efforts.



Custom Protein Development
Recombinant protein production is our specialty from recombinant antibodies to active enzymes to your favorite protein.



Custom Research Services

Combining our expertise in protein production and profiling, SignalChem can collaborate with you on a wide variety of research projects to help characterize your protein, including in vitro and cell-based assay development.

Custom Protein Development

Your protein is special. Producing a recombinant protein can be labour intensive, expensive, and sometimes complicated. Let the recombinant protein experts at SignalChem make your research easy.

Features of our service

- Extensive experience in creating thousands of active enzymes
- Average turnaround times from 5-7 weeks
Multiple expression systems including plants, E.coli, yeast, mammalian, and insect cells
- Flexible production scales from pilot to beyond
- Careful planning followed by quick execution

Why SignalChem?

1000+

Custom Proteins Expressed

4wks

Turnaround Times As Short As

500+

Happy Customers

The SignalChem Advantage

Our contract manufacturing service prides itself in collaborating and not just being a simple service provider. From recombinant antibodies to your favourite protein, we work with you to produce proteins that will help you generate high-quality data, fast.



Extensive experience creating recombinant active enzymes



Robust validation through QA/QC testing



Choice of epitope tags, expression systems, and modifications

Custom Profiling Services

Drug discovery can be hard. SignalChem can help. We are fast, efficient, and discrete. Free up your valuable resources and work with singalChem for your profiling needs. With over 20 years of experience we deliver your results fast and efficiently.

Features of our service

- 1400 active enzymes
- >1100 kinase variants (wild-type + mutants)
- Two-week turnaround time
- Custom assay development & setup (including in vitro & in vivo assays)
- Extensive kinase biology expertise

The SignalChem Advantage

We offer one of the most comprehensive active enzyme screening panels in the industry. Combined with on average a two-week turnaround time and flexible assay setups, you can get fast, economical, and accurate results.

Ki determination of kinase

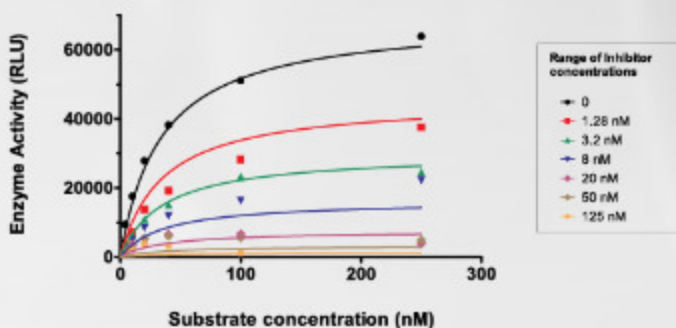


Figure 1: Ki determination of a kinase

The inhibitory constant (K_i) of a kinase was determined by varying substrate versus inhibitor concentrations. The substrate K_m and inhibitor IC_{50} were first quantified to determine the optimal concentration range of each.

Figure 2: IC_{50} determination of a kinase

The half maximal inhibitory concentration (IC_{50}) of a kinase was determined in response to multiple compounds.

IC_{50} determination of kinase

