



APTAGEN LLC
250 North Main Street
Jacobus, PA 17407

717-278-2436

www.aptagen.com

FAQs (Frequently Asked Questions):

Why Aptagen? We Guarantee our Services. No payment on delivery until benchmarks and milestones are met. Aptagen has over 25 years of experience and a number of testimonials attributing to our exceptional customer service and quality for success. We are not the least expensive service, but our quality of R&D is unsurpassed in this area. Others under price and under deliver. We are known for “...*taking on Challenging Projects, and Delivering Positive Results.*” Several former clients did go another route with disappointing results and ended up spending more capital to get the job done right by us. Ask for our References/Testimonials. “....I should have not taken the cheaper route, because in the end, it has actually cost me more time and money to get the job done right by Aptagen....”

Also, you'll own 100% of the IP on the aptamers we develop for you.

Can you discover Unknown or Unique biomarkers using aptamers? Yes. Contact Us for more details.

How much target and counter-target needed to start a project? At least 10 nanomoles (e.g. 1 ml of 100 μ M solution), 1 mg of solid material, or 1×10^7 cells.

Purity of sample target? The target sample may be crude in purity; however, an equivalent crude sample without the presence of the target is needed to perform a counter-selection before positive selection. These consecutive strategy steps effectively subtracts the influence of other endogenous components in the sample milieu and enriches for apta-sensor(s) against only the target in the crude sample specifically.

My target is hydrophobic; any special considerations to be aware of? Aptagen has experience with hydrophobic targets using traditional chemistries. However, in certain circumstances, Aptagen would recommend using Hydrophobically-Modified Aptamers (HMAs), a unique set of proprietary nucleotides that enhance binding to hydrophobic epitopes.

Discounts for multiple projects? For multiple projects, a discount will be applied per additional target for projects initiated simultaneously.

How to save costs to meet budget constraints? A mixture of antigens may be considered as one target, and therefore, substantially discounted from the cost of multiple targets in parallel projects. During later rounds of library enrichment, the pool is split to sort through and identify target-specific binders which will result in additional cost and development time in Phase IV (Validation). However, the cost of sorting through validation (or characterization) is nominal compared to the significant savings gained from pooling the targets in Phase I for screening.

If budget is still a concern, we can collaborate on a grant application for funding or provide technical consultation under the Do-It-Yourself (DIY) option. ***Alternatively, a reduced quote may be issued in exchange for royalty payment terms.*** Contact Us for details.



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Affinity (K_d) vs. Limit of Detection (LOD)? Low affinity (i.e. high K_d) is not necessarily an issue for many downstream applications. Although high-affinity aptamers serve as better starting points for assay development, low to moderate affinity aptamers may exhibit high sensitivity in a particular platform. As a rule of thumb for many platforms, LOD is typically 2 orders of magnitude lower than the K_d . Contact us for details.

Can Aptagen synthesize additional material at larger scales of manufacturing? Aptagen has established close relationships with Original Equipment Manufacturers (OEMs). For all R&D customer projects, Aptagen can facilitate arrangements for the production of milligram- to gram-scale deliverables of aptamers.

Sandwich-based vs. Split-Aptamers? Sandwich aptamers are aptamer pairs that bind to different epitopes on the same target. They individually have the ability to bind to the target in question, and can be used independently from each other. A split aptamer is generated from an aptamer that binds to a single epitope on a given target. The aptamer is divided into 2 segments such that the aptamer re-assembles in the proximity of the target epitope.

Apta-beacons™ vs. Apta-switches? Apta-beacons™ are aptamers that produce an output signal for detection of analytes free in solution (either fluorescent or colorimetric output). They exhibit low limits of detection and can be easily implemented in a 96-well plate assay with No Capturing, No Washing, Just READ™. Multistep approaches like ELISA always requires optimization and is time consuming. The single-step apta-beacon approach does not require optimization and is fast. Apta-switches are aptamers with a structural and/or catalytic response to aptamers, but do not incorporate a readable output signal. Contact Us for more details.



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Additional Notes & Disclaimers:

- 1) The Quote expires in 30 days, after which, the prices are subject to change.
- 2) The Client will need to provide the target(s) for Aptagen. *An additional fee may be applied if Aptagen is responsible for sourcing materials.*
- 3) The Up-front (*Non-Refundable*) payment is required before Project initiation. However, any special promotions or discounts may require special terms.
- 4) Aptagen reserves the right to use the Client's name for public relations or marketing purposes. We also would like to ask for feedback and testimonials regarding our quality of services.
- 5) Aptamers routinely exhibit nanomolar affinity; however, there is no guarantee of a successful research effort since each target is unique and may present unforeseen difficulties during aptamer development. Aptagen has over 25 years of experience in this field.
- 6) The service Aptagen provides is a research and development effort, and may be canceled by the customer at any time for any reason; however, paid invoices are non-refundable for work rendered and all current invoices will become due immediately.
- 7) The Client will own 100% of the rights to the aptamers Aptagen develops for the Client. Aptagen maintains a strict policy not to engage in Research and Development projects against client target(s) using the identical aptamer chemistry (e.g. DNA) employed for prior projects. Aptagen reserves the right to engage in future projects against any target(s) using alternative aptamer chemistries (e.g. RNA, 2'-F-RNA, Peptimer™, Aptabody™, etc.). A Client, at any time up until 120 days after receipt of final Deliverables, may arrange to purchase the Exclusivity Option as well as the 'right of first refusal' to exclude others from procuring Aptagen's Research and Development efforts against the Client's specific target(s) for any and all aptamer chemistries. (Inquire for price.)