



# Aptamers

## Your partner for success

### Aptamer discovery and development services

#### Aptamers to accelerate your research on drug discovery and diagnostic programs

Whether you are working in an early drug discovery program or developing a novel therapeutic or diagnostic application, you may need confidence that you will have the highest-performance required and effortlessly transition for its use.

Working with **AptusBiotech's custom aptamer development services** will deliver the aptamer that you need with improved technical solutions and making use of an experienced team to accelerate the aptamer development for our customers.

#### Why work with AptusBiotech?

- **Consulting and planning.** We help you designing your aptamer selection service. Depending of your target and/or final application we offer different selection strategies for the best results.
- **Ensure the IP protection of your asset.** We work confidentially and all results are fully owned by our customers.
- Our **specialized team**, with more than twenty years of experience in the field, will work as an extension of your team, to ensure the best outcomes.



Feel free to contact us:

[aptusbiotech@aptusbiotech.com](mailto:aptusbiotech@aptusbiotech.com)  
[www.aptusbiotech.com](http://www.aptusbiotech.com)



[@aptusbiotech](https://twitter.com/aptusbiotech)



[aptusbiotech](https://www.linkedin.com/company/aptusbiotech)





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#### Aptamers to accelerate your research

##### How can we do it?



We partner with customers at every stage, from aptamer discovery to commercialization, to develop aptamers that can support your project.

##### 1. **Aptamer discovery**

We have experience in challenging targets such as small molecules, peptides, whole cells or transmembrane proteins, for the development of potential therapeutic or diagnostic uses.

##### 2. **Bioinformatic analysis of massive population sequencing.**

We make use of NGS and the most advanced bioinformatic tools to analyze the selected population. We deliver for you the sequence and structure of up to ten best aptamers candidates.

##### 3. **Aptamer optimization**

Depending of your final application we can explore the use of different chemical modifications as well as the improvement of the aptamer sequence.

##### 4. **Large collection of options for validation your aptamers in your applications**

Our experienced team can design and execute a large collection of assays appropriate for your application, enabling identification of promising drug leads.

Feel free to contact us:

[aptusbiotech@aptusbiotech.com](mailto:aptusbiotech@aptusbiotech.com)

[www.aptusbiotech.com](http://www.aptusbiotech.com)



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### Our Technology

The **selection of aptamers** is an in vitro process carried out using the **SELEX** method (Systematic Evolution of Ligands by Exponential Enrichment), which consists of successive binding-separation-amplification cycles. In this process, heterogeneous populations of oligonucleotides with random sequences are used and specific aptamers are identified.



Selection of aptamers with our team of more than 20 years of experience



Specific recognition and stable binding

### Aptamers as substitutes for mAbs

Aptamers' Advantages	Costs	Chemical synthesis
	Safety	Non-immunogenic
	Long half-life	Reversible denaturation
	Range	To a wide number of targets
	Other	Smaller size, stability and reproducibility

Aptus Biotech has developed its own selection systems that allow optimization of the process, identifying the best aptamers for each target.

For further information, contact us at:

[aptusbiotech@aptusbiotech.com](mailto:aptusbiotech@aptusbiotech.com)

or find more at:

[www.aptusbiotech.com](http://www.aptusbiotech.com)



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Do you need  
an **alternative**  
to your  
**mAbs?**



Think  
**APTAMERS!**

Contact us:  
[aptusbiotech@aptusbiotech.com](mailto:aptusbiotech@aptusbiotech.com)

Cardenal Herrera Oria, 298,  
28035 Madrid, Spain  
+34 654 58 97 17  
[www.aptusbiotech.com](http://www.aptusbiotech.com)