

Building tomorrow's breakthroughs

DARPin® are a uniquely versatile and customizable protein therapeutic class with the potential to transform treatment for cancer and other serious diseases.

WE ARE PIONEERS

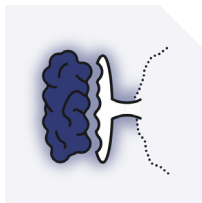
Molecular Partners (SIX:MOLN) is pioneering the class of DARPin® therapeutics, which we believe have the potential to overcome many limitations of current protein-based therapeutics and deliver entirely new ways of treating disease. DARPins have been validated through extensive clinical trials involving up to 2,000 patients across multiple programs and through the pivotal stage.

A NEW DRUG CLASS

DARPins are custom-built therapeutics based on natural proteins with the powerful advantages of tunable multi-functionality and specificity for multiple targets at once.

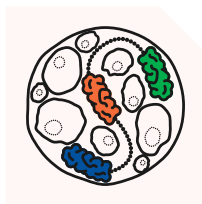
To tailor DARPins to medical need, we draw on a vast library of 'mono-DARPins' and screen for optimal binding to clinically validated molecular targets. We then assemble the best mono-DARPins into a chain through a highly standardized linking process. The result is a custom-built multi-functional 'multi-DARPin'. We can rapidly generate thousands of different multi-DARPin product candidates to address a wide range of diseases.

KEY ADVANTAGES OF DARPins



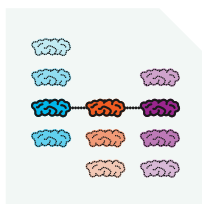
High affinity and specificity

High potency with lower risk of off-target effects



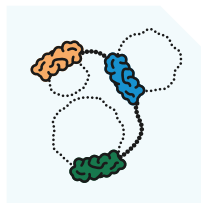
Small size (10 kDa)

Allows greater tissue penetration



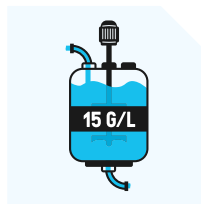
Modular structure: 1 DARPin, 1 function

Rapid creation of multi-functional candidates



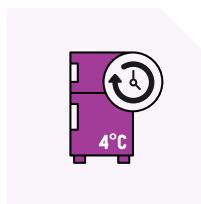
Multi-specificity

Can act on up to 6 distinct targets at once



Simple high-yield manufacturing

Highly validated bacterial fermentation simplifies production and scaling



Long shelf-life and stability

Can be stored for years at 4°C, simplifying supply chain management

BUILDING A NEW APPROACH TO CANCER

The unique advantages of DARPins have the potential to address many current challenges of cancer treatment. DARPins in development have been designed to:

- Target multiple cancer escape pathways at once, improving efficacy and reducing resistance.
- Activate only within the target tumor, potentially eliminating off-target effects and widening the therapeutic window.
- Kill tumors without the need for a toxin by bringing together immune cells and cancer antigens.
- Bind to molecular targets found within dense tumor microenvironments that have been difficult to access by other drug modalities with large and flexible binding mechanisms, such as antibodies.

CASE STUDY: MP0317

This clinical immuno-oncology candidate leverages our local immune activation platform: it binds to both the tumor-associated protein FAP and the immune protein CD40, uniting them to induce tumor cell death. In preclinical studies MP0317 has induced CD40-mediated tumor killing without the off-target toxicity typically seen with systemic CD40 antibody administration.

OUR PORTFOLIO

While DARPins are a versatile drug class, our long-term portfolio strategy focuses on immuno-oncology with other opportunities guided by partnership strategy and urgent medical need.

■ Immuno-oncology ■ Antiviral ■ Ophthalmology

CANDIDATE / FOCUS	RESEARCH	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	RIGHTS
+ MP0250 / Multiple myeloma / PI combo						MOLECULAR partners
+ MP0274 / HER2+ tumors						
+ MP0310 (AMG 506) / FAP x 4-1BB						AMGEN
+ MP0317 / FAP x CD-40						MOLECULAR partners
+ Peptide-MHC targeting DARPins®						
+ Anti-COVID-19 DARPIn® candidates						MOLECULAR partners
+ Abicipar / Neovascular AMD						Allergan
+ Abicipar / DME						
Additional DARPIn® candidates						

A TEAM UNITED BY A VISION

Molecular Partners is led by an experienced team dedicated to incredible science and a focus on delivering transformational outcomes for patients. Our leadership includes DARPIn technology inventors and experts in drug discovery, development and corporate development. Our trans-Atlantic Board of Directors provide expertise in the fields of oncology drug discovery, translational science, commercialization and capital strategy.