

Technology Offer

CSIC/RB/001

New potent anti-inflammatory that does not alter the innate immune response



Andrographolide derivatives for its use as treatment for inflammatory diseases related to cytokine storm

Intellectual Property

Spanish patent granted, US and EU patents application filed

Stage of development

Technology validated in a relevant environment

Intended Collaboration

Licensing and/or co-development

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Market need

Cytokine storm is an uncontrolled immune response where the body releases excessive cytokines, causing high fever, swelling, nausea, fatigue and even multiple organ failure in severe cases. There are treatments based on monoclonal antibodies and drugs focused on inhibiting those cytokines, but they present toxicity in most cases with major secondary effects.



Proposed solution

AG5 is a semi-synthetic derivative of andrographolide, a plant-derived product, very useful for the treatment of inflammatory diseases related to a massive cytokine release. These new compounds show a secure and specific way to control the inflammation, that can be caused by a viral infection, a bacterial infection or by immunotherapy.

Competitive advantages

- New tool, more specific and safer than the current treatments, in order to control the inflammatory response
- Able to inhibit the cytokine storm, while adequately preserving innate immunity.
- Potential to replace corticosteroids (e.g. dexamethasone).