

Anti-cancer drug derived from plant



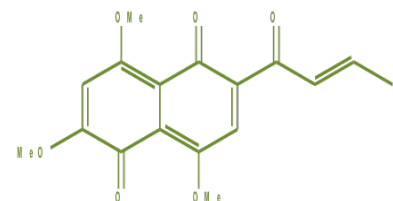
HEALTH
ONCOLOGY

ALTERNATIVE THERAPEUTIC SOLUTION IN BREAST CANCER

From aspirin to anti-cancer drugs, plants provide the pharmaceutical industry with the raw materials for manufacturing a large part of its medicine, whether directly isolated from a natural environment or synthesized with molecules extracted from it.

The technology consists in :

- 1 | Isolation of the natural Guieranone B from *Guiera senegalensis* leaves with previously unknown antitumoral properties
- 2 | Development of a chemical synthesis of Guieranone B and its active analogues



Competitive Advantages

- Unique active molecule isolated from a plant
- Access to new synthetic derivatives with antitumour activity *in vitro*
- Chemical synthesis to avoid problems of plant sourcing

Development Status

- Selective chemical synthesis of active analogues of Guieranone B
- Chemical synthesis of Guieranone B is underway
- Antiproliferative activity demonstrated *in vitro* on breast cancer cells

This table below describes anti-proliferative activities of active principles vs reference anti-cancer agents on the breast cancerous cells MCF-7, with the Fluoroskan assay. Average of 6 independent samples. The IC50 (half maximal inhibitory concentration) observed for Guieranone B and its analogues is between Tamoxifen and 5-FU values.

	IC50 average (µg/mL)
Analogue 1	4,70
Analogue 2	2,20
Guieranone B	2,24 ± 0,13
Tamoxifen	4,42 ± 0,34
5-FU	0,53 ± 0,05

Business Opportunities

- Therapeutic solution for breast, prostate and colon cancer alone or in combination with chemotherapies
- Therapeutic alternative for resistant cancers

#Keywords

Cancer
Natural active principle

Research Team

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Partnership

Licensing or co-development

Intellectual Property

FR2980196 / WO2013037964
Priority filing in 2011, granted in FR, CN, US
Requests filed in EP / KR

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