



ANTITUMORAL ACTIVE SUBSTANCE FROM PLANT

#KEYWORDS

Cancer
Natural active principle

CONTEXT

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.

TECHNOLOGY

Guieranone B is a natural molecule with previously unknown anti-tumoral properties. We isolated Guieranone B from a shrub used in African traditional medicine and solved its chemical structure.

Guieranone B exhibited a high anti-proliferative activity on the MCF-7 human breast cancer cell line. The IC50 (half maximal inhibitory concentration) of 7.1 μ M is between tamoxifen and 5-FU values.

Chemical synthesis of the molecule is underway.

ADVANTAGES / BENEFITS

- Unique molecule isolated from a plant
- Anti-proliferative activity *in vitro* demonstrated on breast cancer cells

INTELLECTUAL PROPERTY

Priority filing in 2011, granted in France and China

Requests filed in EP / KR / US

PARTNERSHIP

Licencing or co-development

RESEARCH TEAM

Sigma-Clermont: / Auvergne
and Blaise Pascal Universities,
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