Aloe emodin

Name of the	Aloe emodin
Phytochemical	
Chemical	он о он
Structure	ОН
Botanical Source	Aloe barbadensis
CAS Number	481-72-1
Functional	 Shows significant inhibitory activity against the P-388 leukemia
Activity	 Has a specific in vitro and in vivo antineuroectodermal tumor activity
	• Demonstrates anti-tumor activity (ED ₅₀ s = 1-13 μ M), inducing apoptosis in various cancer cells by increasing the production of reactive oxygen species
	 Have estrogenic activity, shown to inhibit breast cancer cell proliferation by downregulating ERα protein levels
	An interferon-inducing agent
Key References	1. Emodin induces chloride secretion in rat distal colon through activation of mast cells and enteric neurons. British Journal
	of Pharmacology, 2012, 165, 197-207
	2. Emodin-provoked oxidative stress induces apoptosis in human colon cancer HCT116 cells through a p53-mitochondrial
	apoptotic pathway. Asian Pac.J.Cancer Prev., 2014, 15, 5201-5205
	3. Aloe-emodin is a new type of anticancer agent with selective activity against neuroectodermal tumors. Cancer Research, 2000, 60, 2800-2804
	4. Emodin and aloe-emodin suppress breast cancer cell proliferation through ERα inhibition. Evidence-Based Complementary and alternative Medicine , 2013 , 1-12

- 5. Aloe-emodin suppresses prostate cancer by targeting the mTOR complex 2. Carcinogenesis, 2012, 33, 1406-11
- **6.** Emodin sensitizes the gemcitabine-resistant cell line Bxpc-3/Gem to gemcitabine via downregulation of NF-κB and its regulated targets. **Int J Oncol.**, **2013**, **42**, **1189-96**
- 7. Inhibition of β-Amyloid Aggregation by Albiflorin, Aloeemodin and Neohesperidin and their Neuroprotective Effect on Primary Hippocampal Cells Against β-Amyloid Induced Toxicity. Curr Alzheimer Res., 2015, 12, 424-33
- 8. Effects of aloeemodin on proliferation cycle and apoptotic of human stomach cancer cell line HGC-27. J. Modern Oncol., 2008, 16, 919-21