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(54) Title: SALINOSPORAMIDES AND METHODS FOR USE THEREOF

(57) Abstract: The present invention is based on the discovery that certain fermentation products of the marine actinomycete strains CNB392 and CNB476 are effective inhibitors of hyperproliferative mammalian cells. The CNB392 and CNB476 strains lie within the family Micromonosporaceae, and the generic epithet *Salinospora* has been proposed for this obligate marine group. The reaction products produced by this strain are classified as salinosporamides, and are particularly advantageous in treating neoplastic disorders due to their low molecular weight, low IC_{50} values, high pharmaceutical potency, and selectivity for cancer cells over fungi.

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