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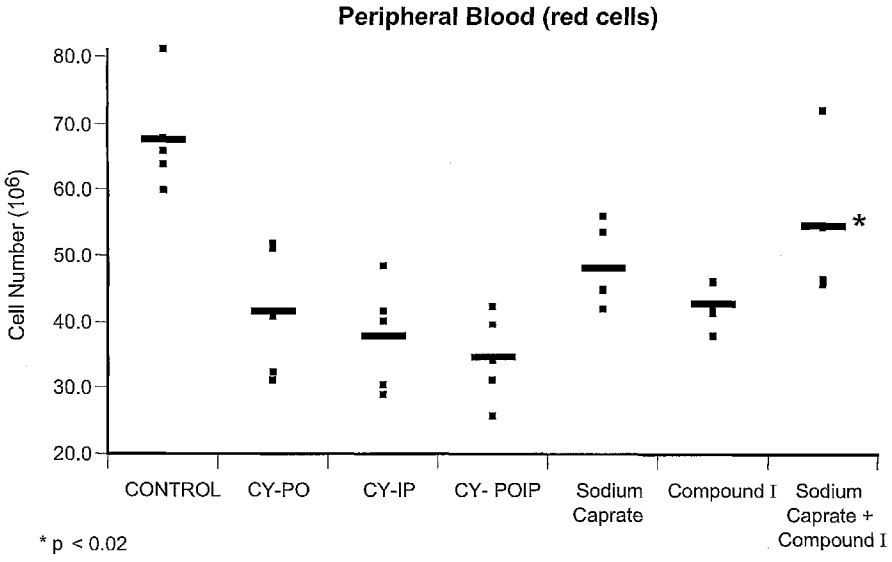
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[Continued on next page]

(54) **Title:** SUBSTITUTED PURINYL DERIVATIVES WITH IMMUNOMODULATOR AND CHEMOPROTECTIVE ACTIVITY AND USE ALONE OR WITH MEDIUM-CHAIN LENGTH FATTY ACIDS OR GLYCERIDES



(57) **Abstract:** The present invention describes new biological activities of immunomodulating 6-substituted purinyl compounds which make them particularly useful during the treatment of cancer. Collectively, these new biological activities make these purinyl compounds useful chemoprotective agents for the treatment of myelosuppression which is associated with cancer chemotherapy and/or radiotherapy. This chemoprotective activity is in addition to the immunomodulating and subsequent anticancer activity displayed by these compounds, The chemoprotective usefulness of these compounds is further enhanced by the use of medium-chain fatty acids or salts or triglycerides or mono- or diglycerides in combination with the 6-substituted purinyl compounds of this invention.

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