

RADIOACTIVE ARSENIC-CONTAINING COMPOUNDS AND THEIR USES IN THE TREATMENT OF TUMORS

ABSTRACT OF THE DISCLOSURE

This invention provides a process for producing a radioactive arsenic-containing compound, comprising the steps of: (i) subjecting an arsenic-containing compound to a neutron irradiation treatment, said arsenic-containing compound being selected from a group consisting of As_2O_3 , As_2S_3 , As_2S_2 , and a combination thereof, such that the arsenic element contained in the arsenic-containing compound is converted to a radioactive arsenic isotope; and (ii) recovering the resultant product from step (i).

This invention also provides a pharmaceutical composition comprising a therapeutically effective amount of the radioactive arsenic-containing compound and a pharmaceutically acceptable carrier. The pharmaceutical composition can be used in the treatment of tumors/cancers such as hematological malignancies and solid tumors.

(Fig. 3 is suggested for publication.)