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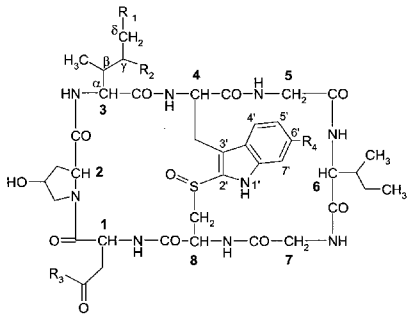
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(54) Title: AMATOXIN-ARMED TARGET-BINDING MOIETIES FOR THE TREATMENT OF CANCER

Fig. 1



| | $R_1$ | $R_2$ | $R_3$ | $R_4$ |
|---|---|---|---|---|
| α-amanitin | OH | OH | $NH_2$ | OH |
| β-amanitin | OH | OH | OH | OH |
| γ-amanitin | H | OH | $NH_2$ | OH |
| ε-amanitin | H | OH | OH | OH |
| amanin | OH | OH | OH | H |
| amaninamide | OH | OH | $NH_2$ | H |
| amanullin | H | H | $NH_2$ | OH |
| amanullinic acid | H | H | OH | OH |

(57) Abstract: The invention relates to tumour therapy, In one aspect, the present invention relates to conjugates of target-binding moieties and toxins that are useful in the treatment of cancer. In particular, the toxin is an amatoxin, and the target-binding moieties (e.g. antibodies) are directed against tumour-associated antigens, such as epithelial cell adhesion molecule (EpCAM). In a further aspect the invention relates to pharmaceutical compositions comprising such target-binding moiety toxin conjugates and to the use of such target-binding moiety toxin conjugates for the preparation of such pharmaceutical compositions. The target-binding moiety toxin conjugates and pharmaceutical compositions of the invention are useful for the treatment of cancer, in particular adenocarcinoma, such as pancreatic cancer, cholangiocarcinoma, breast cancer, and colorectal cancer.

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