ABSTRACT

NOVEL BENZODIAZEPINE DERIVATIVES

The invention relates to novel benzodiazepine derivatives with antiproliferative activity and more specifically to novel benzodiazepines of formula (I) and (II), in which the diazepine ring (B) is fused with a heterocyclic ring (CD), wherein the heterocyclic ring is bicyclic or a compound of formula (III), in which the diazepine ring (B) is fused with a heterocyclic ring (C), wherein the heterocyclic ring is monocyclic. The invention provides cytotoxic dimers of these compounds. The invention also provides conjugates of the monomers and the dimers. The invention further provides compositions and methods useful for inhibiting abnormal cell growth or treating a proliferative disorder in a mammal using the compounds or conjugates of the invention. The invention further relates to methods of using the compounds or conjugates for in vitro, in situ, and in vivo diagnosis or treatment of mammalian cells, or associated pathological conditions.

Figure 1