

ABSTRACT

The present invention relates to a boron carrying agent for integrated tumor diagnosis and treatment, and a preparation method therefor and use thereof. Provided is a compound represented by formula I: wherein an R group is hydrogen or alkyl. A boron atom connected to the benzene ring may be ^{10}B or natural boron, and at least one fluorine atom in $-\text{BF}_3-$ is radiolabeled. The present invention generally relates to the fields of radiopharmaceuticals and nuclear medicine. The compound in the present invention can be used for a drug for integrated diagnosis and treatment in tumor diagnosis and BNCT treatment, and by means of the same chemical structure, a reliable distribution result of a drug in vivo is provided.

(Fig. 10)