

ABSTRACT

A radioactive halogen-labeled phenyoxylaniline derivative represented by the following formula:
wherein R^1 represents a group such as an alkyl group;
 X^1 , X^2 , X^3 and X^4 represent each a hydrogen atom, an alkyl group, an alkoxy group, an alkoxy group carrying ^{11}C introduced thereinto or a radioactive halogen atom, provided that at least one of X^1 , X^2 , X^3 and X^4 represents an alkoxy group carrying ^{11}C introduced thereinto or a radioactive halogen atom; which is a compound useful as a PBR ligand having a high affinity and a high selectivity. In in vitro measurement of PBR, a PBR ligand having a high affinity and a high selectivity is labeled with a radioactive halogen nuclear species so as to enable the measurement of PBR in vivo with the use of means including not only PET but also SPECT. Thus, a compound which is useful in early diagnosing, preventing and treating diseases such as Alzheimer type dementia can be obtained.