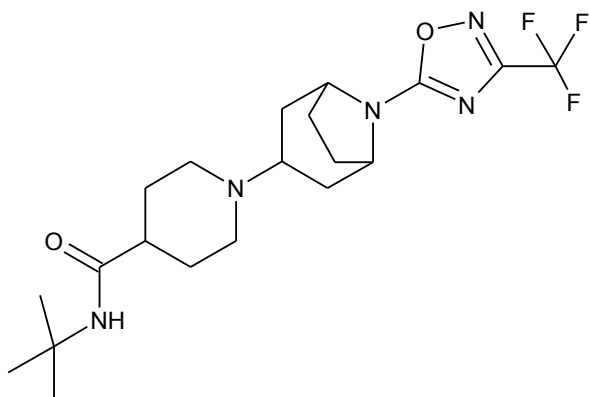


This invention relates to compounds that are agonists of the muscarinic M₁ and M₄ receptor and which are useful in the treatment of diseases mediated by the muscarinic M₁ and/or M₄ receptors. Also provided are pharmaceutical compositions containing the compounds and the therapeutic uses of the compounds. Compounds provided are of formula (1):



(1);

and salts thereof.