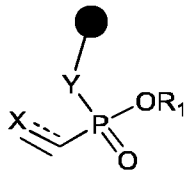
## ABSTRACT

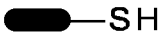
Disclosed are novel conjugates and processes for the preparation thereof. A process for the preparation of alkene- or alkyne-phosohonothiolates and -phosphonates comprises the step of:

reacting a compound of formula (I)




(I)

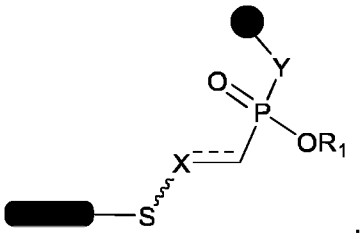
with a thiol-containing molecule of formula (II)




(II)

wherein ⬬ represents an amino acid, a peptide, a protein, an antibody, a nucleotide, an oligonucleotide, a saccharide, a polysaccharide, a polymer, an optionally substituted $C_1$-$C_8$-alkyl, an optionally substituted phenyl, or an optionally substituted aromatic 5- or 6-membered heterocyclic system;

resulting in a compound of formula (III)




(III)

(Figure 16)