Acyclovir synthesis

We describe a synthesis of acyclovir-5′-(phenyl methoxy alaninyl) phosphate (2) from acyclovir (1). This compound was designed to act as a lipophilic, antiviral medication. It is primarily used for the treatment of herpes simplex virus infections, chickenpox, and herpes simplex infections. Acyclovir (ACV), also known as acyclovir, is an antiviral medication. It inhibits and inactivates HSV-specified DNA polymerases preventing further viral DNA synthesis without affecting the normal cellular processes. Aciclovir is an antiviral agent; prodrug of acyclovir. It is primarily used for the treatment of herpes simplex virus infections, chickenpox, and herpes simplex infections. Synthesis of a series of new ethyl phosphoramidates 9a–j of acyclovir through phosphorylation of hydroxy group followed by substitution of numerous amines/amino. Synthesis of a series of new ethyl phosphoramidates 9a–j of acyclovir through phosphorylation of hydroxy group followed by substitution of numerous amines/amino.