

CHEMICAL REAGENTS FOR THE ACTIVATION OF POLYSACCHARIDES IN THE PREPARATION OF CONJUGATE VACCINES

Abstract

This invention provides novel reagents for cyanating polysaccharides in aqueous or part aqueous solutions so that they may be covalently linked to proteins either directly or through a spacer. These reagents include 1-cyano-4-pyrrolidinopyridinium tetrafluoroborate (CPPT), 1-cyano-imidazole (1-CI), 1-cyanobenzotriazole (1-CBT), or 2-cyanopyridazine-3(2H)one (2-CPO), or a functional derivative or modification thereof. The examples illustrate the use of these reagents with a variety of polysaccharides and proteins showing that the methods are generally applicable.

No suitable Fig.