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GLYCERYL CPG

INTRODUCTION

A support has been described¹ for the preparation of oligonucleotides with a 3'-phosphoglyceryl terminus. The terminus is readily oxidized by sodium periodate to form a 3'-phosphoglycaldehyde. The aldehyde may be further oxidized to the corresponding carboxylic acid. Either the aldehyde or the carboxylate may be used for subsequent conjugation to amine-containing products. The authors were specifically interested in the products from the radical cleavage of oligonucleotides by DNA targeting molecules like bleomycin, enediyne antibiotics and transition metal complexes.

USE OF GLYCERYL CPG

Coupling: No changes needed from standard method recommended by synthesizer manufacturer.

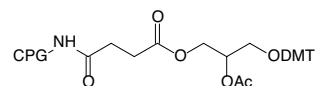
Deprotection: Cleavage of the oligonucleotide from this support requires 2 hours at room temperature with ammonium hydroxide. Complete the deprotection using the protocol required by the nucleobases.

Storage: Freezer storage, -10 to -30°C, dry

REFERENCE

1. H. Urata and M. Akagi, *Tetrahedron Lett.*, 1993, **34**, 4015-4018.

FIGURE 1: STRUCTURE OF GLYCERYL CPG



20-2902: Glyceryl CPG