

DDTT Sulfurizing Reagent

<http://cn.lumiprobe.com/p/ddtt-1192027-04-5>

DDTT is a sulfurizing reagent used to prepare phosphorothioate linkages, which increase the stability and nuclease resistance of nucleic acids, especially of RNA. It is suitable for automated synthesizers employing standard phosphoramidites for a large-scale synthesis of oligonucleotides.

DDTT demonstrates faster kinetics and higher stability in solution, compared to other sulfurizing reagents such as tetraethylthiuram disulfide (TETD) and Beaucage reagent, respectively. DDTT is commonly applied as a 0.05 M or 0.1 M solution in pyridine/acetonitrile and has a lifetime of up to 6 months.

Usage

Coupling: Sulfurization step must come before capping step. The optimum sulfurizing time for DDTT Sulfurizing Reagent, 0.05 M solution in pyridine/acetonitrile: 1 min for DNA or 6 min for RNA.

Deprotection: standard conditions.

外观:

分子量: 205.33

CAS 编号: 1192027-04-5

分子式: $C_5H_7N_3S_3$

质量控制:

储存条件:

稀释剂:

偶联条件:

解保护条件: