Product Data Sheet

Product Name:	Long trebler phosphoramidite
Cat. No.:	GC16263

Chemical Properties

Cas. No.			
Chemical Name	3-[3-[3-[3-[bis(4-methoxyphenyl)methoxy]propoxy]-2,2-bis[3-[bis(4-methoxyphenyl)methoxy]propoxymethyl]propoxy]propoxy-[di(propan-2-yl)amino]phosphanyl]oxypropanenitrile		
SMILES	CC(C)N(C(C)C)P(OCCCOCC(COCCCOC(C1=CC=C(C=C1)OC)C2=CC=C(C=C2)OC)(COCCCOC(C3=CC=C(C=C3)OC)C4=CC=C(C=C4)OC)COCCCOC(C5=CC=C(C=C5)OC)C6=CC=C(C=C6)OC)OCCC#N		
Formula	$C_{89}H_{107}N_2O_{15}P$	M.Wt	1475.78
Solubility	soluble in acetonitrile, dichloromethane	Storage	12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Long trebler phosphoramidite		

Background

Long trebler phosphoramidite is a branching reagent for oligonucleotide synthesis allowing to synthesize branched DNA structures using standard DNA synthesizer. use of trebler amidite to synthesize branched DNA After the condensation of the trebler, three DNA branches begin to grow simultaneously with each step of the synthesis. Deblock of this construct gives rise to DNA containing branching point. One arm (stem) is attached to branch point with its 5'-end, and other arms (branches) are attached via 3'-end. Reverse amidites can be used to prepare constructs with different branch orientations. Repetitive condensations of trebler results in formation of DNA dendrimers. Trebler amidite can be used to attach several modifier amidites to 5'-end of oligonucleotide - for example, three biotin residues can be attached at once. This amidite does not require any special handling. Recommended coupling time is 5 minutes. No changes to deblock conditions are required.

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