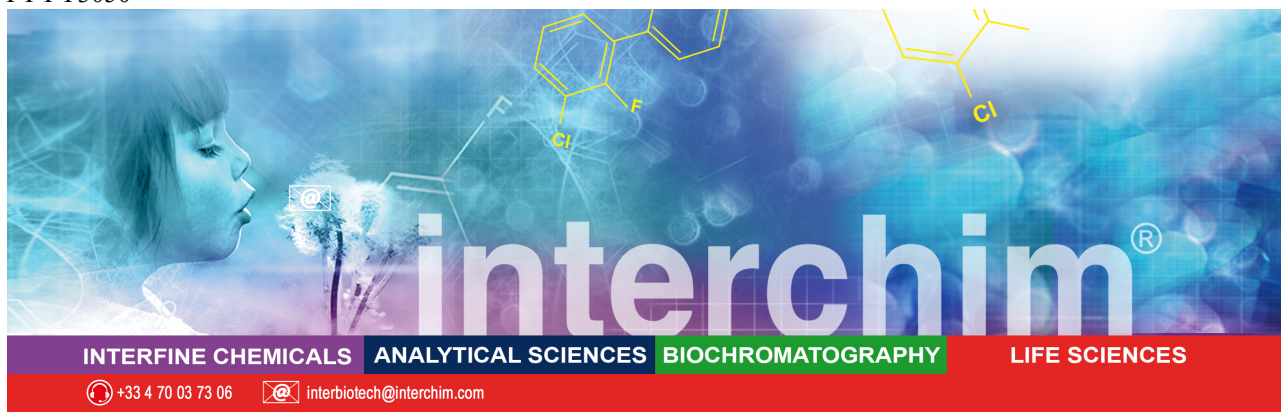


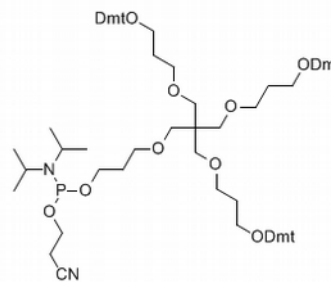
FT-FY3050



Long trebler phosphoramidite

Product Description

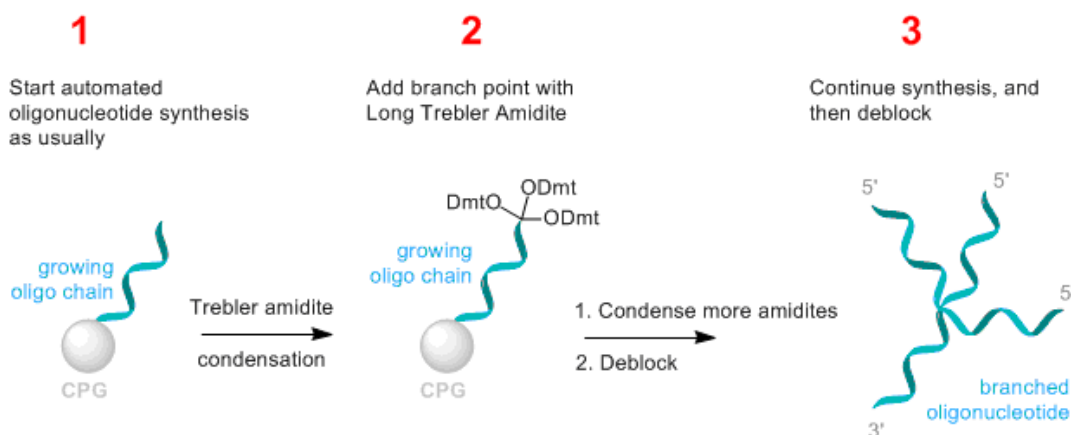
- Catalog #:** FY3050, 250 mg
FY3051, 500 mg
FY3052, 1 g
- Name :** Long trebler phosphoramidite
- Other :** C₈₉H₁₀₇N₂O₁₅P MW : 1475.78
- Soluble in :** acetonitrile, dichloromethane
- Storage :** Storage: 12 months after receipt at -20°C. Transportation: at room temperature for up to 3 weeks. Desiccate.



For Research Use Only

Technical and Scientific Information

Long trebler phosphoramidite is a branching reagent for oligonucleotide synthesis allowing to synthesize branched DNA structures using a standard DNA synthesizer.



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 a branching point. One arm (stem) is attached to the branch point with its 5'-end, and other arms (branches) are attached with their 3'-ends. Reverse amidites can be used to prepare constructs with different branch orientations. Repetitive condensations of trebler results in formation of DNA dendrimers.

FT-FY3050

Treble amidite can be used to attach several modifier amidites to the 5'-end of an 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.

Oligo synthesis details

Coupling conditions: 15 min coupling time recommended

Cleavage conditions: ammonia, 2 h at room temperature

Deprotection conditions: identical to protected nucleobases

References

- Aparin, I.O.; Farzan, V.M.; Veselova, O.A.; Chistov, A.A.; Podkolzin, A.T.; Ustinov, A.V.; Shipulin, G.A.; Formanovsky, A.A.; Korshun, V.A.; Zatsepin, T.S. 1-Phenylethynylpyrene (PEPy) as a novel blue-emitting dye for qPCR assay. *Analyst*, 141, 1331–1338 (2016)

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

Hotline : +33(0)4 70 03 73 06 – Interbiotech@interchim.com

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