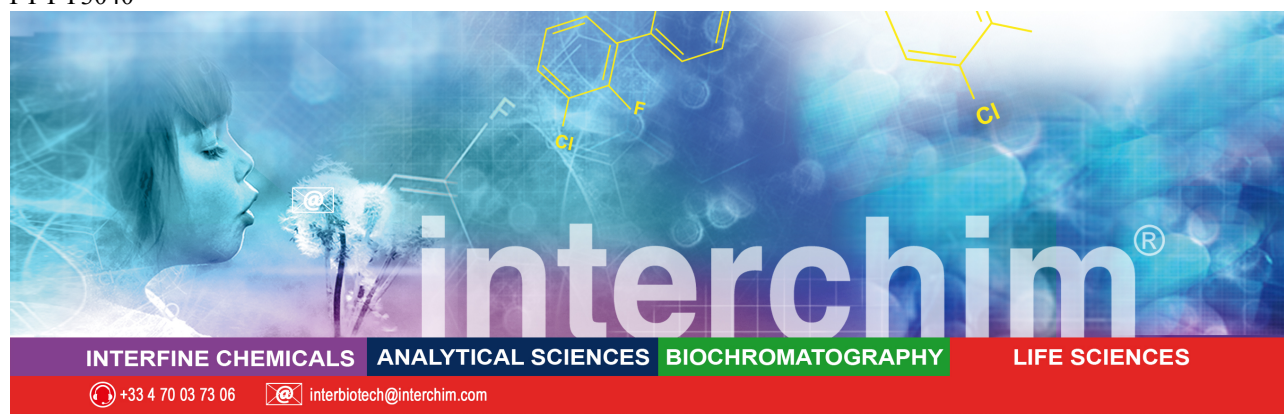


FT-FY3040



DMS(O)MT aminolink C6

Product Description

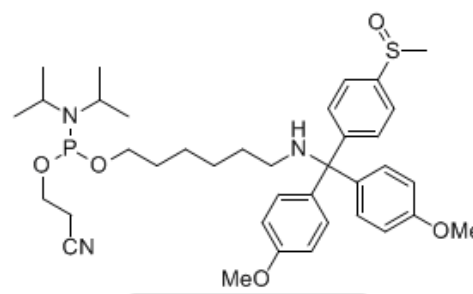
Catalog #: FY3040, 250 mg
FY3041, 1 g
FY3042, 5 g
FY3043, 10 g

Name : **DMS(O)MT aminolink C6**

Other : C₃₇H₅₂N₃O₅PS MW : 681.86

Soluble in : Anhydrous Acetonitrile

Storage : 12 months after receipt at -20°C in the dark.
Transportation: at room temperature for up to 3 weeks.



For Research Use Only

Technical and Scientific Information

Aminolink phosphoramidite for oligonucleotide synthesis. DMS(O)MT is a special protective group similar to traditional MMT, but designed as an improved alternative to it. DMS(O)MT aminolink is fully compatible with standard coupling, deblock, and purification protocols. However, DMS(O)MT group is much better suited for DMT-on and cartridge purification of amino-oligonucleotides because of higher stability, and better oligonucleotide recovery. Oligonucleotides containing DMS(O)MT are more stable in solution than MMT analogs.

In case of cartridge purification, DMS(O)MT protection allows for 2-3 fold increase of oligonucleotide yield, making this reagent a unique solution for high-throughput manufacturing of amino-oligonucleotides.

Oligo synthesis details

Coupling conditions: standard coupling, identical to normal nucleobases

Cleavage conditions: ammonia, 2 h at room temperature; if an oligonucleotide with trityl group needs to be evaporated, add small amount of Tris base before it, or trityl group can be lost.

Deprotection conditions: identical to protected nucleobases. Trityl group can be removed by acidic cleavage in either 80% acetic acid, or on C18 cartridge during purification using 2% to 4% trifluoroacetic acid.

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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