

Catalogue Number	Product	Order number / Unit
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1200 Dimethoxybenzyl-FLT-precursor

**Precursor for [¹⁸F]FLT
(3'-Deoxy-3'-[¹⁸F]fluorothymidine)**

Molar Mass: 879.93

C₄₆H₄₅N₃O₁₃S

[290371-75-4]

Yellowish to orange foam packaged in dark glass crimp cap vials.

Purity: > 95 %

Certificates:

CoA; ¹H NMR spectrum

Chemical Name:

CA index name: 2,4-(1H,3H)-Pyrimidinedione, 1-[5-O-[bis(4-methoxy-phenyl)phenylmethyl]-2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-β-D-threo-pentofuranosyl]-3-[(2,4-dimethoxyphenyl)methyl]-5-methyl-

Synonymes:

3-N-(2,4-Dimethoxybenzyl)-1-[5-O-(4,4'-dimethoxytrityl)-3-O-nitrophenylsulfonyl]-2-deoxy-β-D-lyxofuranosyl]thymidine; N-(2,4-Dimethoxybenzyl)-5'-O-dimethoxytrityl-3'-O-nosyl-thymidine; 2,4-(1H,3H)-Pyrimidinedione, 1-[5-O-[bis(4-methoxy-phenyl)phenylmethyl]-2-deoxy-3-O-[(4-nitrophenyl)sulfonyl]-β-D-threo-pentofuranosyl]-3-[(2,4-dimethoxyphenyl)methyl]-5-methyl-; Dimethylbenzyl-FLT-precursor

Literature:

1. Shields A.F. et al. Imaging proliferation in vivo with [¹⁸F]FLT and positron emission tomography. *Nature Medicine* 1998, 4, 1334-1336.
2. Grierson J.R. et al. Developments in the radiosynthesis of [¹⁸F]FLT. *J. Nucl. Med.* 1998, 39, Proceedings of the 45th Annual Meeting, Toronto, Ontario, Canada; 22 P. No. 76.
3. Grierson J.R. et al. An improved radiosynthesis of [¹⁸F]FLT. *J. Labelled Compd. Radiopharm.* 1999, 42, Suppl. 1, S525.
4. Grierson J.R. et al. Radiosynthesis of 3'-deoxy-3'-[¹⁸F]fluoro-thymidine: [¹⁸F]FLT for imaging of cellular proliferation in vivo. *Nucl. Med. Biol.* 2000, 27, 143-156.

1200.0010: 10 mg per vial
1200.0025: 25 mg per vial
Please inquire for customized filling and bulk quantities.

