

Catalogue Number	Product	Order number / Unit
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**2878**

**FMAU**

**2878.0010: 10 mg per vial**  
Please inquire for customized filling and bulk quantities.

Reference standard for [<sup>18</sup>F]FMAU and [<sup>11</sup>C]FMAU

**Molar Mass:** 260.22

C<sub>10</sub>H<sub>13</sub>FN<sub>2</sub>O<sub>5</sub>

[69256-17-3]

Colourless solid packaged in dark glass screw cap vials.

**Purity:** > 95 %

**Certificates:**

CoA; <sup>1</sup>H and <sup>19</sup>F NMR spectra

**Chemical Name:**

CA index name: 2,4(1H,3H)-Pyrimidinedione, 1-[2-deoxy-2-fluoro-β-D-arabinofuranosyl]-5-methyl-

**Synonyms:**

1-(2-Fluoro-2-deoxy-β-D-arabinofuranosyl)thymine; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyl-2,4(1H,3H)-pyrimidinedione; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyluracil; 2'-Fluoro-5-methyl-arabinosyluracil; 2'-Fluoro-5-methyl-β-D-arabinofuranosyluracil; 1-[(2R,3S,4R,5R)-3-Fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-methylpyrimidine-2,4-dione; 5-Methyl-1-[(2R,3S,4R,5R)-3-fluoro-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidine-2,4-dione; 5-Methyl-1-(2-fluoro-2-deoxy-β-D-arabinofuranosyl)uracil; 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-methyl-2,4(1H,3H)-pyrimidinedione; β-FMAU; β-D-FMAU

**Literature:**

Mangner T.J. et al. Synthesis of 2'-deoxy-2'-[<sup>18</sup>F]fluoro-beta-D-arabinofuranosyl nucleosides, [<sup>18</sup>F]FAU, [<sup>18</sup>F]FMAU, [<sup>18</sup>F]FBAU, [<sup>18</sup>F]FIAU, as potential PET agents for imaging cellular proliferation. Nucl. Med. Biol. 2003, 30, 215-224.

Alauddin M.M. et al. Direct comparison of radiolabeled probes FMAU, FHBG, and FHPG as PET imaging agents for HSV1-tk expression in a human breast cancer model. Mol. Imaging 2004, 3, 76-84.

Alauddin M.M. et al. Synthesis and evaluation of 2'-deoxy-2'-<sup>18</sup>F-fluoro-5-fluoro-1-beta-D-arabinofuranosyluracil as a potential PET imaging agent for suicide gene expression. J. Nucl. Med. 2004, 45, 2063-2069

