

Catalogue Number	Product	Order number / Unit
107	<p><b>Mannose Triflate PLUS, ultra pure</b></p> <p><b>Precursor for [<sup>18</sup>F]FDG</b> <b>(2-[<sup>18</sup>F]Fluoro-2-deoxy-D-glucose)</b></p> <p>Manufactured according to GMP requirements for APIs (ICH Q7) Pharmaceutical grade (EDMF/DMF)</p> <p><b>Molar Mass:</b> 480.37 C<sub>15</sub>H<sub>19</sub>F<sub>3</sub>O<sub>12</sub>S [92051-23-5]</p> <p>Colourless or nearly colourless crystals packaged in clear glass vials (10 ml headspace) with teflon-faced rubber stoppers, tear-off crimp caps, argon flushed. Melting range 119 - 122 degC Soluble in acetonitrile, DMSO, methanol, acetone; insoluble in aqueous media.</p> <p><b>Purity:</b> &gt; 99 %</p> <p><b>Certificates:</b> CoA with <sup>1</sup>H, <sup>19</sup>F NMR, and IR spectra, specific optical rotation and melting point (identity); HPLC, <sup>19</sup>F NMR, HS-GC, and thermogravimetry (chemical purity); testing for bacterial endotoxines and sterility (microbiological purity)</p> <p><b>Chemical Name:</b> CA index name: beta-D-mannopyranose, 1,3,4,6-tetraacetate 2-(trifluoromethanesulfonate)</p> <p><b>Synonymes:</b> TATM; mannose triflate; 1,3,4,6-tetra-O-acetyl-2-O-trifluoro-methanesulfonyl-beta-D-mannopyranose</p> <p><b>Literature:</b></p> <ol style="list-style-type: none"> <li>1. Hamacher K. et al. Efficient stereospecific synthesis of no-carrier-added 2-[<sup>18</sup>F]fluoro-2-deoxy-D-glucose using amino-polyether supported nucleophilic substitution. J. Nucl. Med. 1986, 27, 235-238.</li> <li>2. Padgett H. et al. Computer-controlled radiochemical synthesis: a chemistry process control unit for the automated production of radiochemicals. Appl. Radiat. Isot. 1989, 40, 433-445.</li> <li>3. Pavliak V. et al. A short synthesis of 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-beta-D-glucopyranose and the corresponding alpha-glucosyl chloride from D-mannose. Carbohydr. Res. 1991, 210, 333-337.</li> <li>4. Chirakal R. Traces of fluorine containing impurities in the mannose triflate and their adverse effect on the radiochemical yield of 2-<sup>18</sup>FDG. XIIth ISRC; Uppsala, Sweden 1997, 214-216.</li> </ol>	<p>107.0020: 20 mg per vial 107.0025: 25 mg per vial 107.0040: 40 mg per vial Please inquire for customized filling and bulk quantities.</p> 