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(54) **Title:** DIRECT SYNTHESIS OF <sup>18</sup>F-FLUOROMETHOXY COMPOUNDS FOR PET IMAGING AND THE PROVISION OF  
NEW PRECURSORS FOR DIRECT RADIOSYNTHESIS OF PROTECTED DERIVATIVES OF *O*-([<sup>18</sup>F]FLUOROMETHYL)  
TYROSINE

(57) **Abstract:** The invention describes novel direct synthesis methods for converting a precursor into a PET-tracer with a <sup>18</sup>F-  
fluoromethoxy-group. The invention is also directed to novel and stable precursors for the direct radiosynthesis of protected derivat-  
ives of *O*-([<sup>18</sup>F]Fluoromethyl) tyrosines.



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