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**A Microscale Synthesis of A Promising Radiolabelled
Antitumor Drug : cis- 1,1- cyclobutanedicarboxylato
(2R) -2-methyl-1,4-butanediamine
platinum (II) , NK121***

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A promising antitumor drug, cis-1,1-cyclobutane-dicarboxylato (2R)-2-methyl-1,4-butanediamine platinum (II), NK 121, was synthesized from radionuclides of platinum such as ^{193m}Pt , ^{195m}Pt and ^{191}Pt which were produced by neutron irradiation of enriched ^{192}Pt . The overall yield was 38.6% in a synthesis time of 10 hours. The radioactivities present in 8.39 mg of NK 121 were 115.3 μCi as ^{193m}Pt , 29.9 μCi as ^{197}Pt , 22.0 μCi as ^{195m}Pt , and 4.8 μCi as ^{191}Pt at the end of synthesis. The specific activity of the NK 121 was 13.7 μCi (^{193m}Pt)/mg NK 121 at the end of synthesis. The radiochemical purity of NK 121 was typically 99 %. HPLC analyses confirmed that NK 121 was in an adequate chemical purity and suitable for animal experimentation.

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