

*Supporting Material of*

# **Development of a Carbon-11 PET Radiotracer for Imaging TRPC5 in the Brain**

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Zhude Tu<sup>\*a</sup>**

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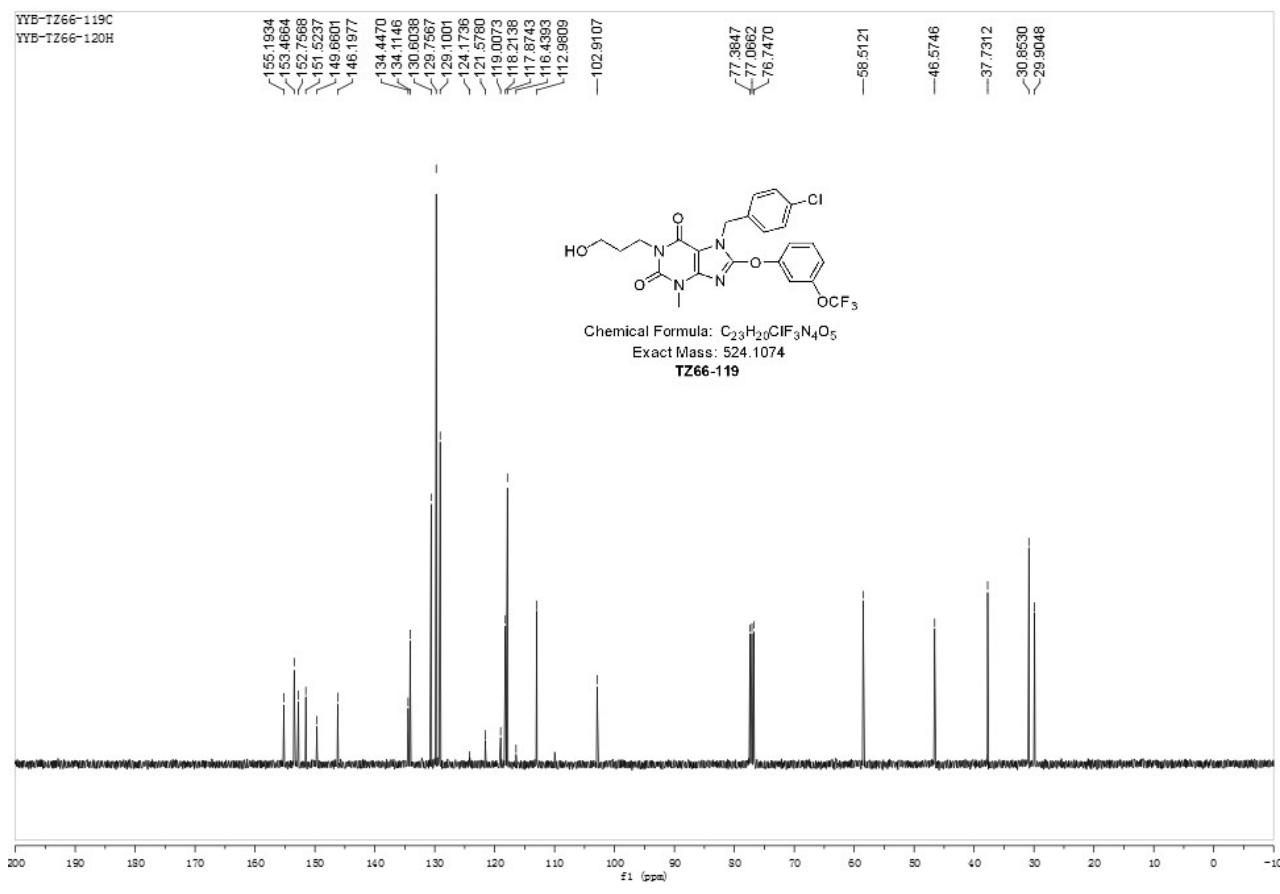
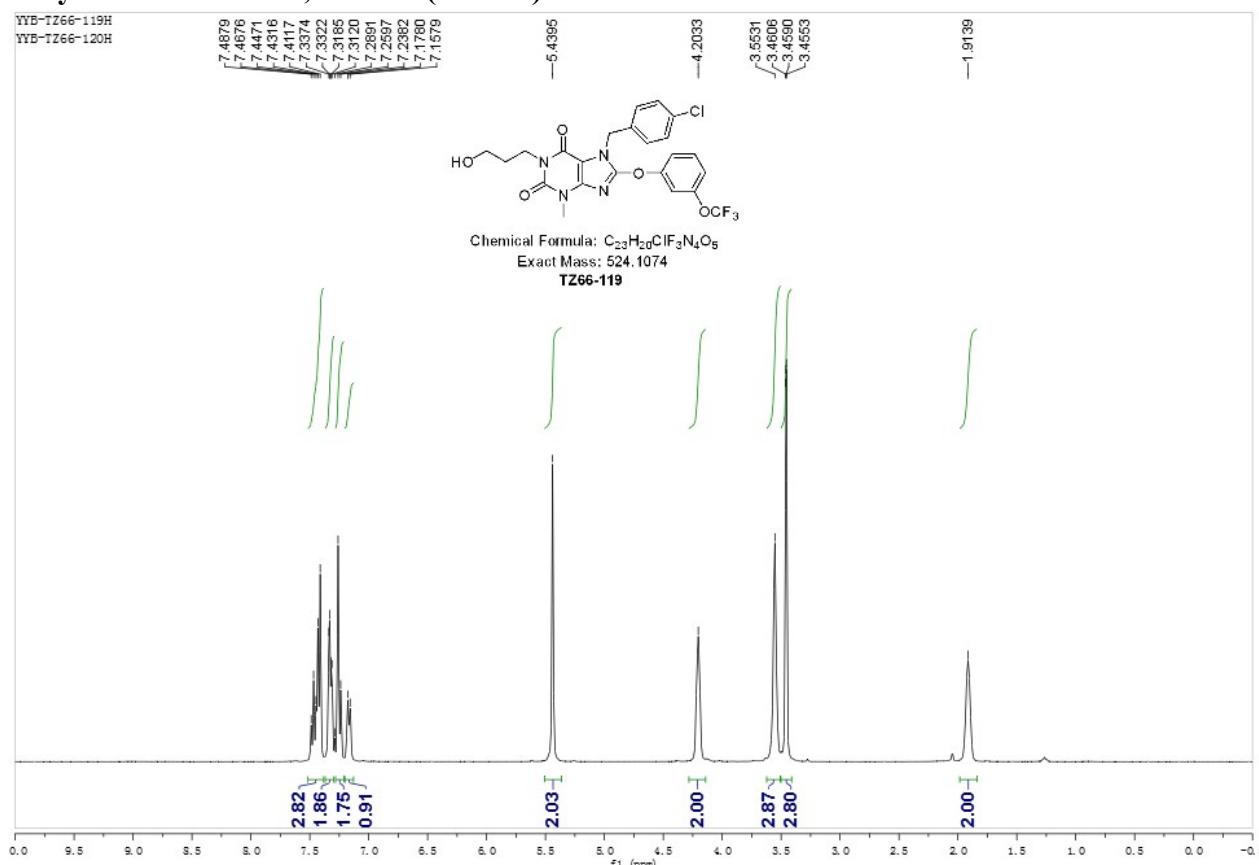
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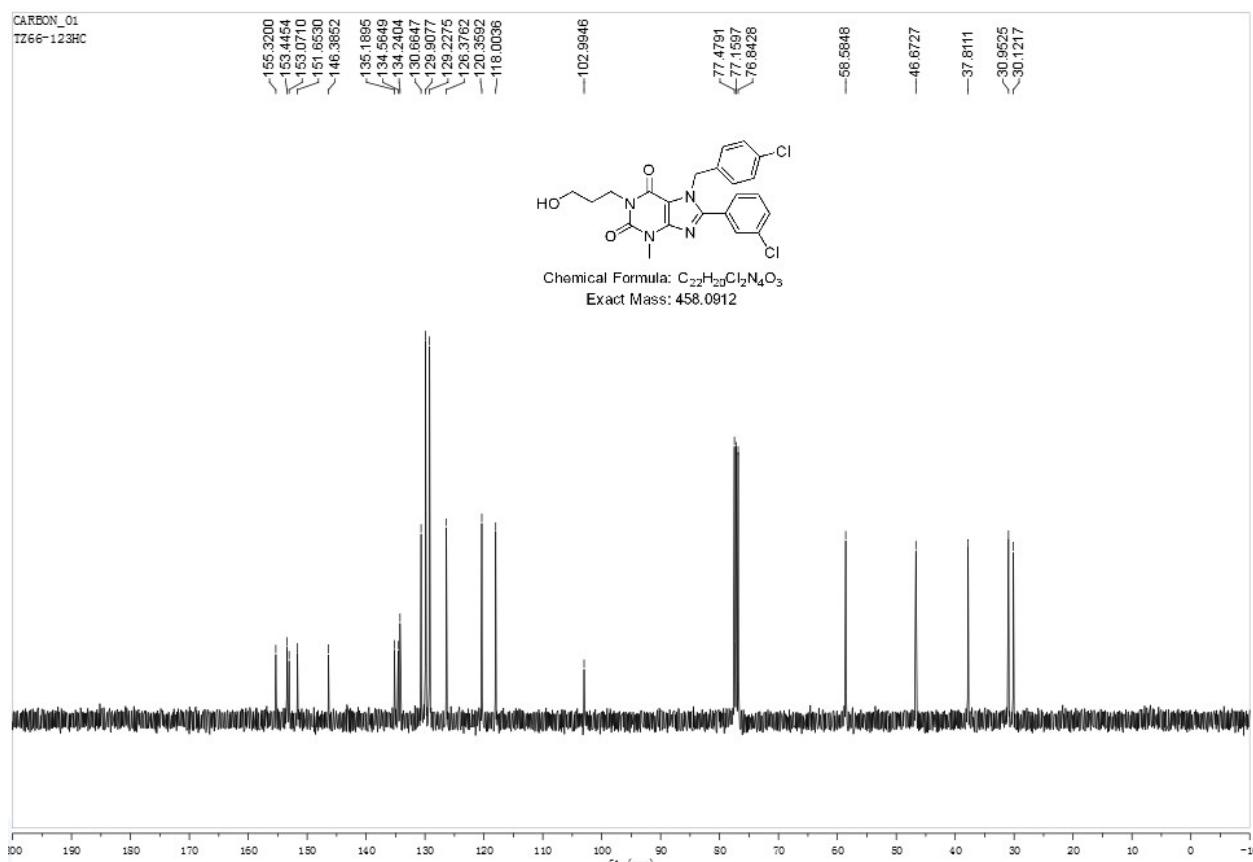
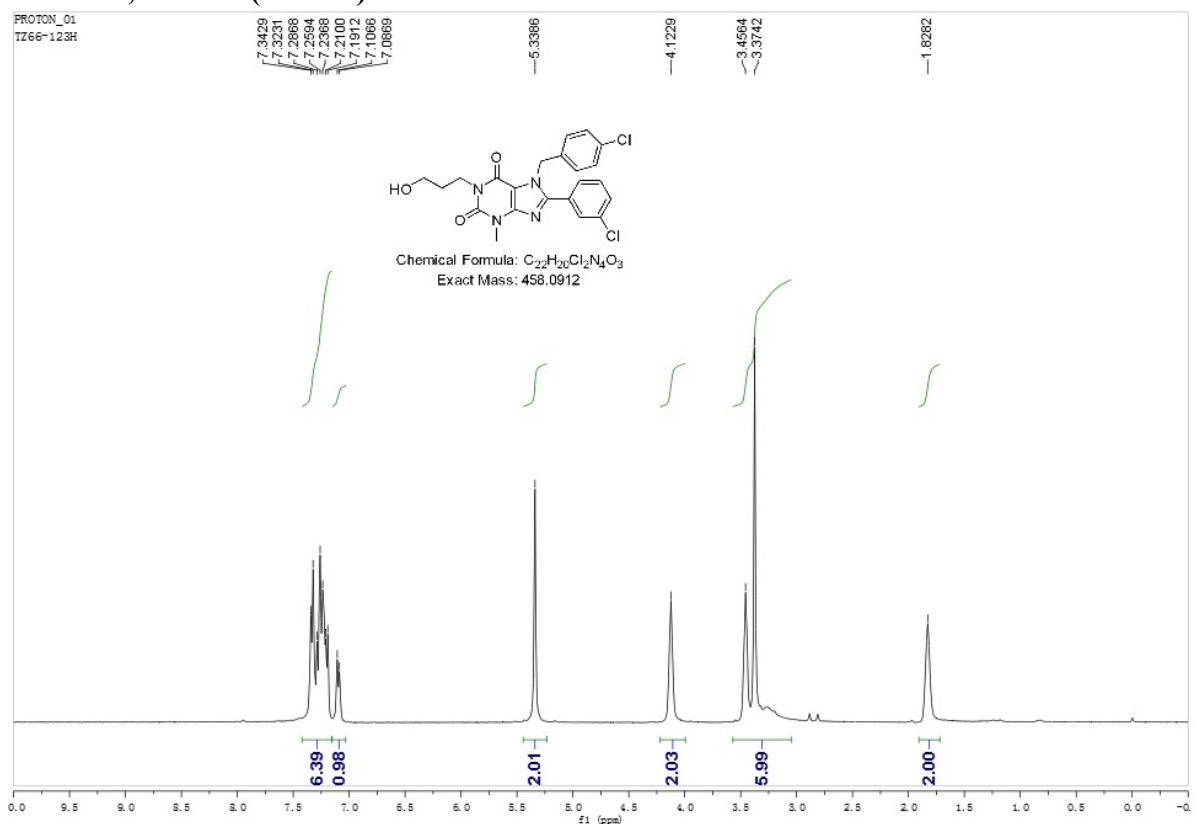
## **Contents of Supporting Information**

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| 1. <sup>1</sup> H NMR and <sup>13</sup> C NMR data for <b>HC608</b> and <b>HC070</b> ..... | S2 |
| 2. <sup>1</sup> H NMR and <sup>13</sup> C NMR data for <b>2-7</b> .....                    | S4 |

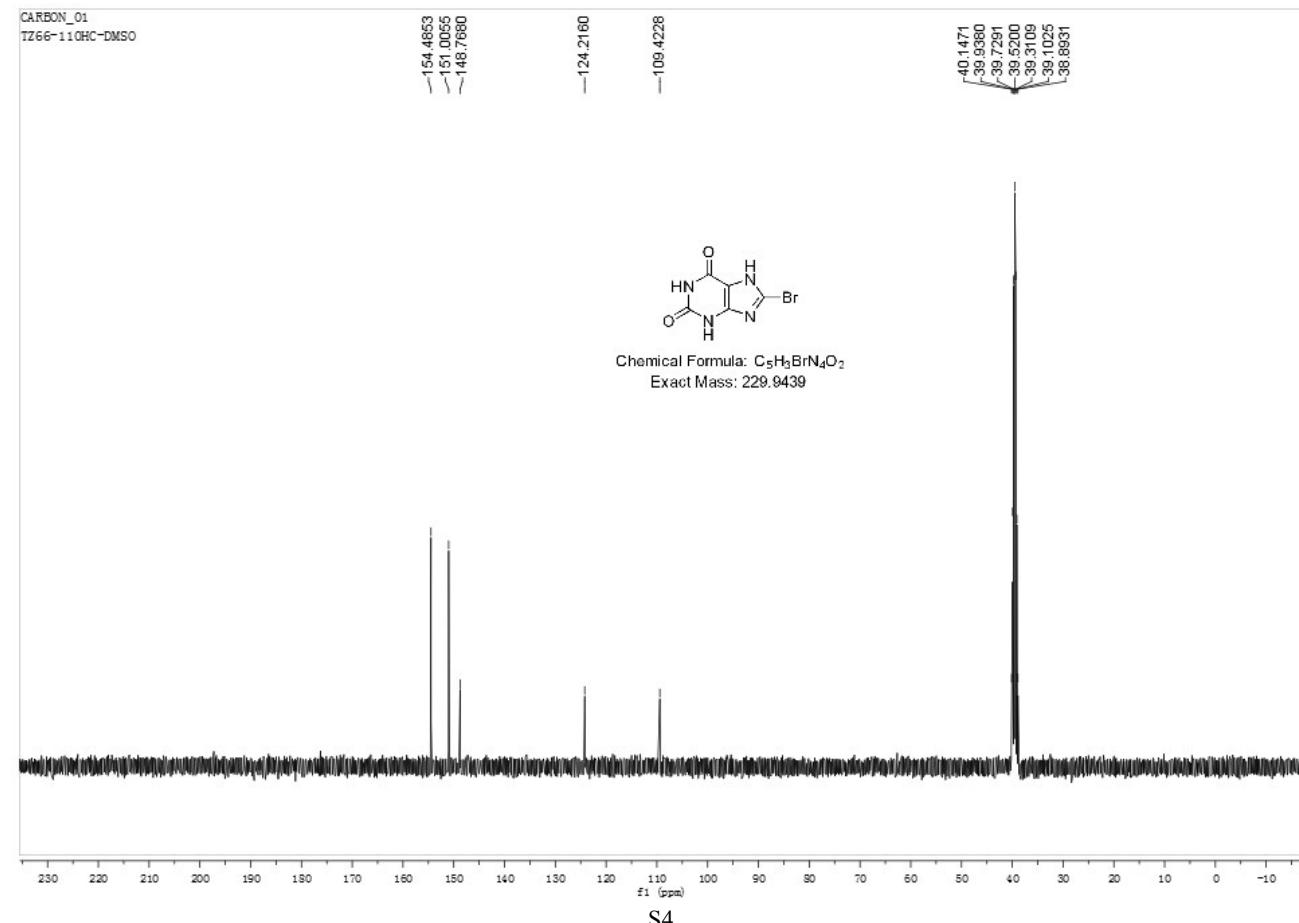
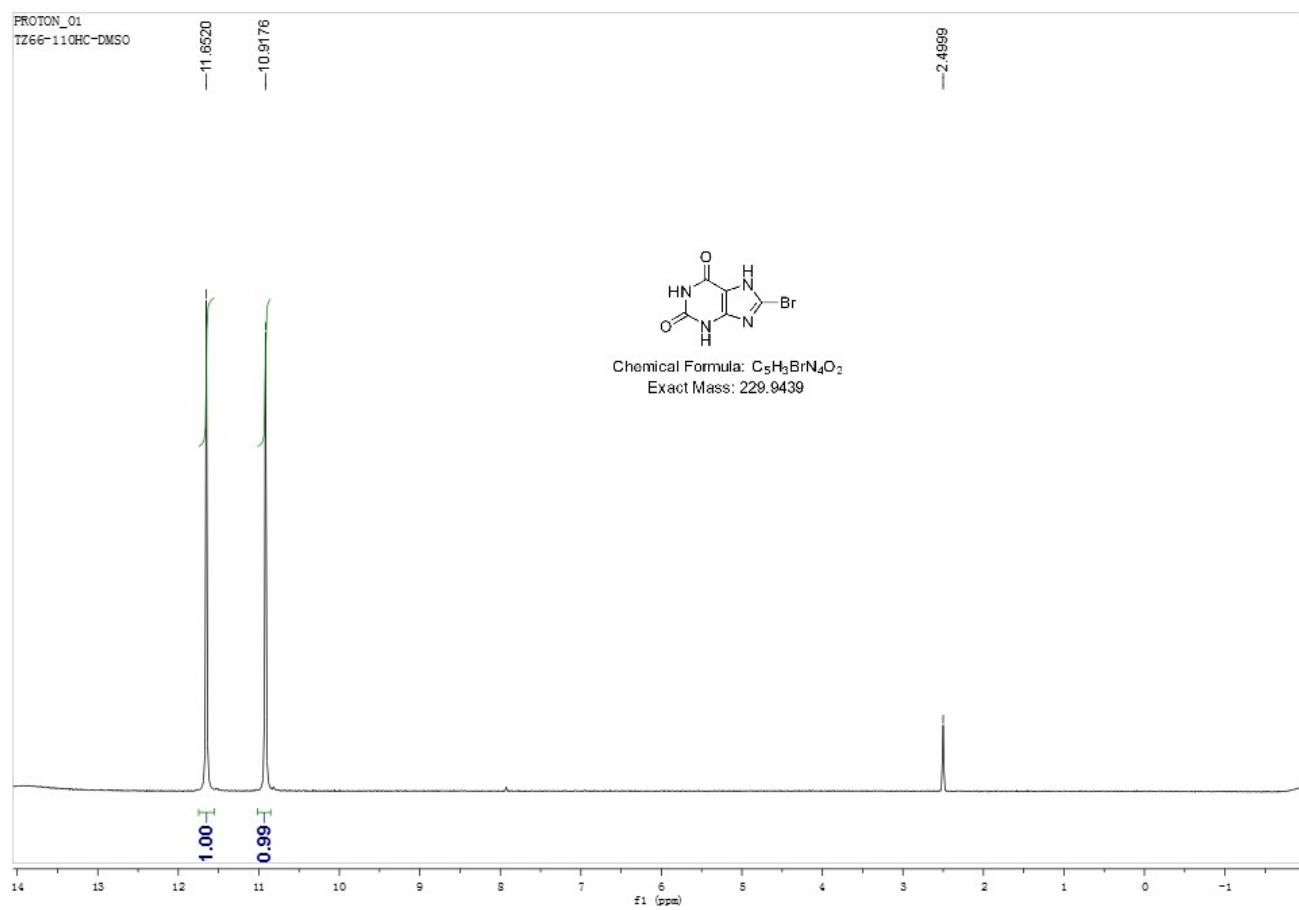
**7-(4-Chlorobenzyl)-1-(3-Hydroxypropyl)-3-Methyl-8-(3-(Trifluoromethoxy)Phenoxy)-3,7-Dihydro-1H-Purine-2,6-Dione (HC608)**



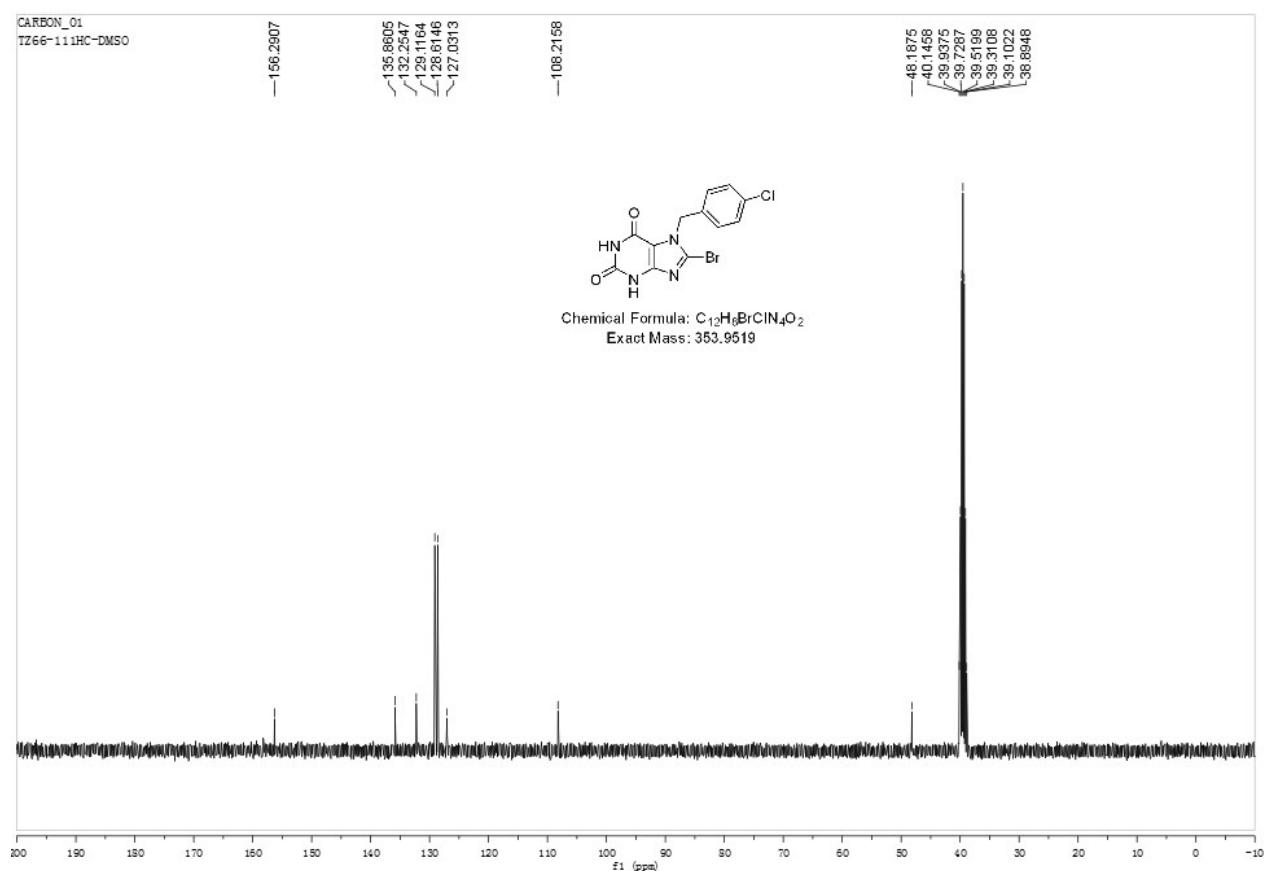
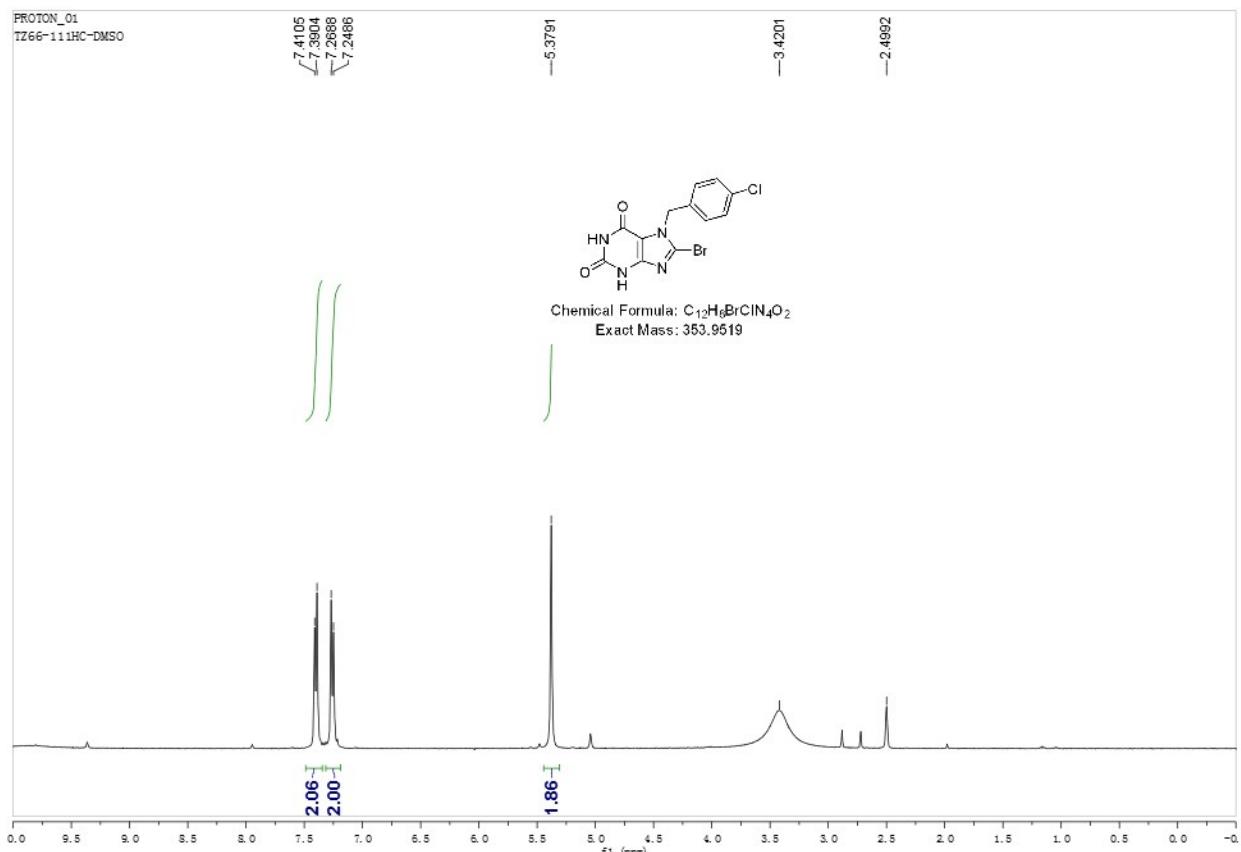
**7-(4-Chlorobenzyl)-8-(3-Chlorophenoxy)-1-(3-Hydroxypropyl)-3-Methyl-3,7-Dihydro-1H-Purine-2,6-Dione (HC070)**



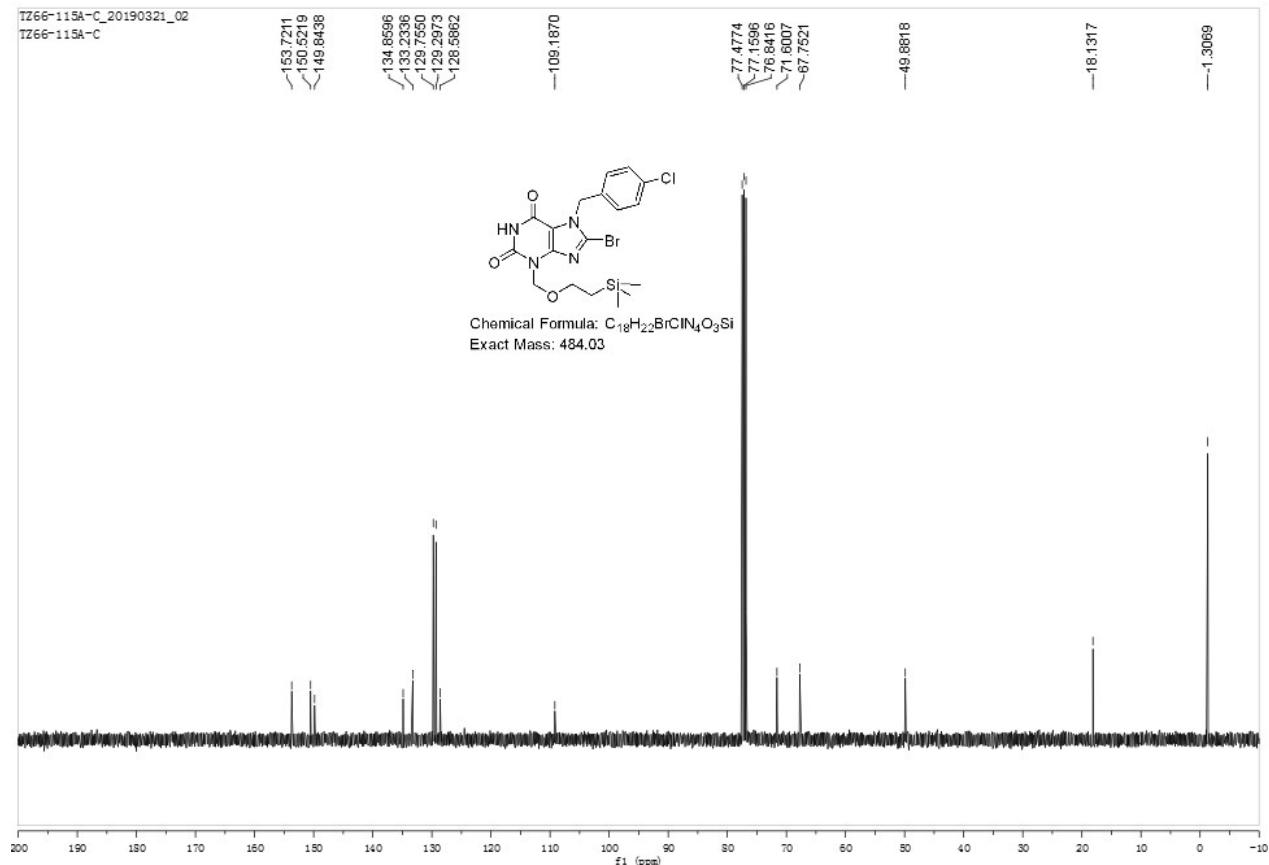
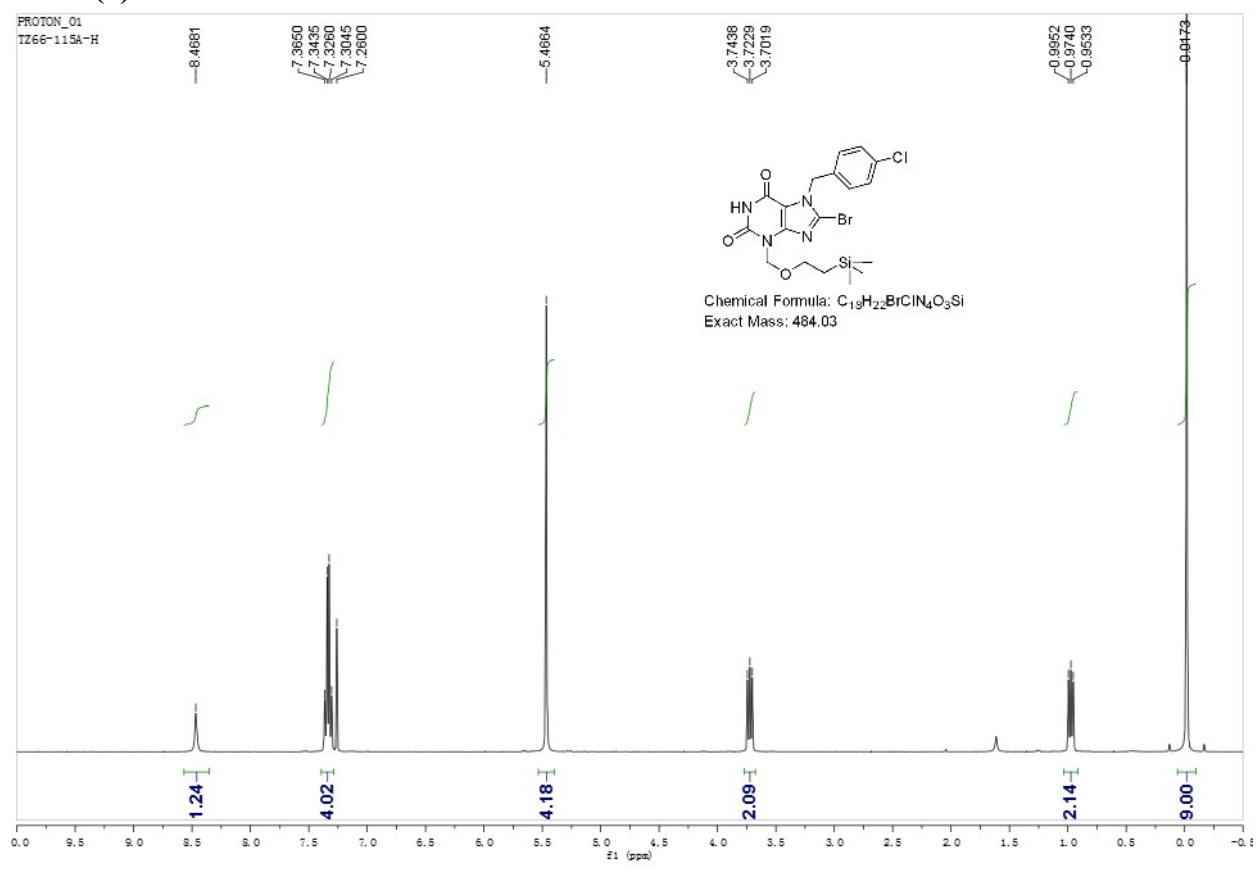
### 8-Bromo-3,7-dihydro-1H-purine-2,6-dione (2)



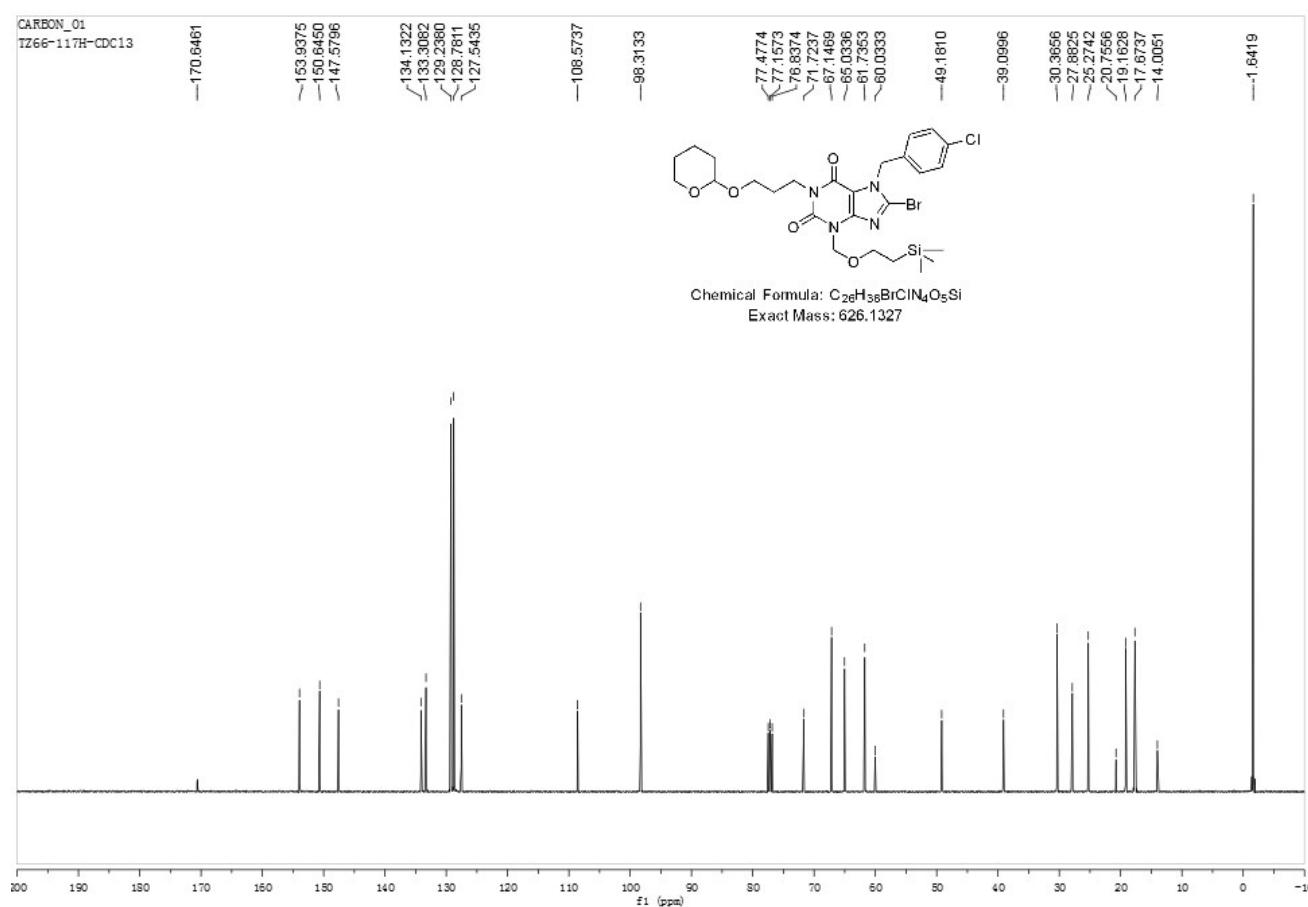
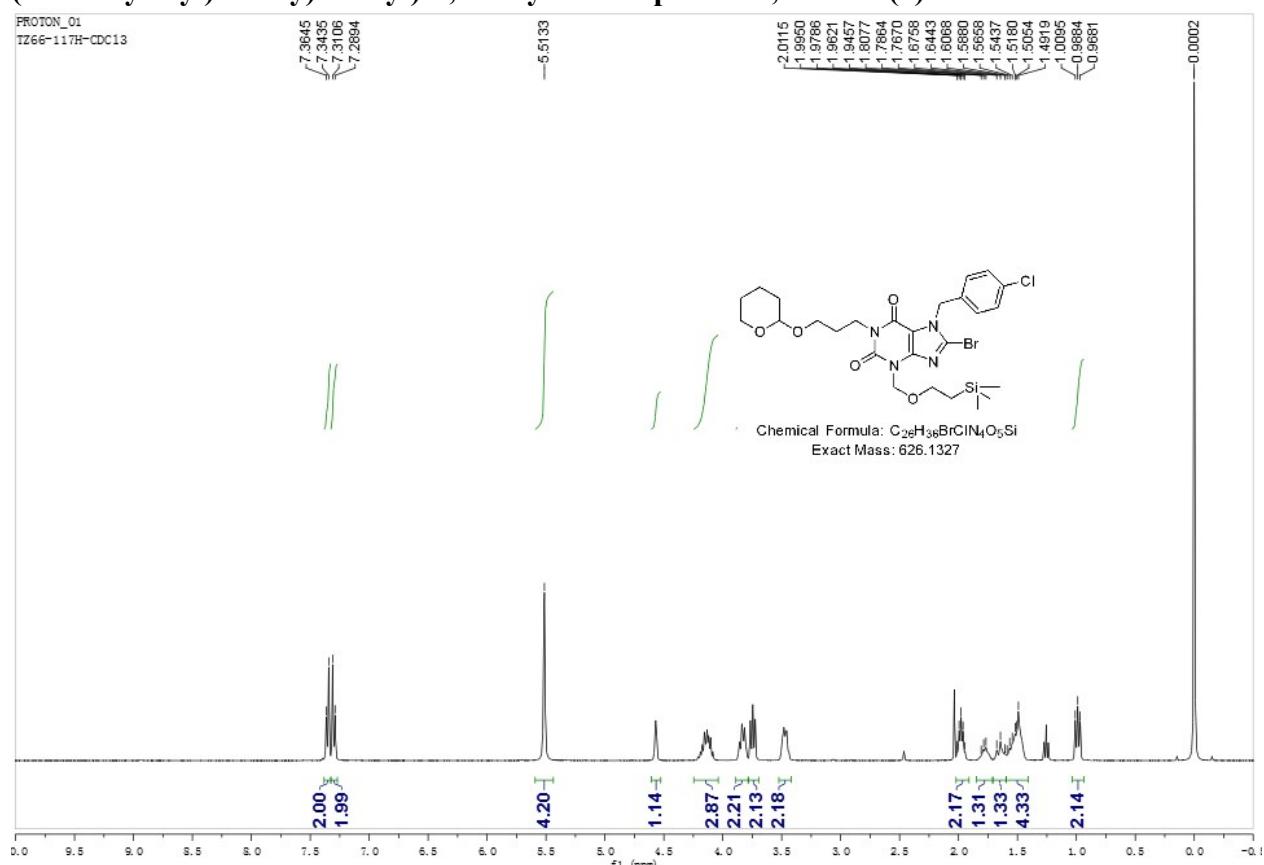
### 8-Bromo-7-(4-chlorobenzyl)-3,7-dihydro-1H-purine-2,6-dione (3)



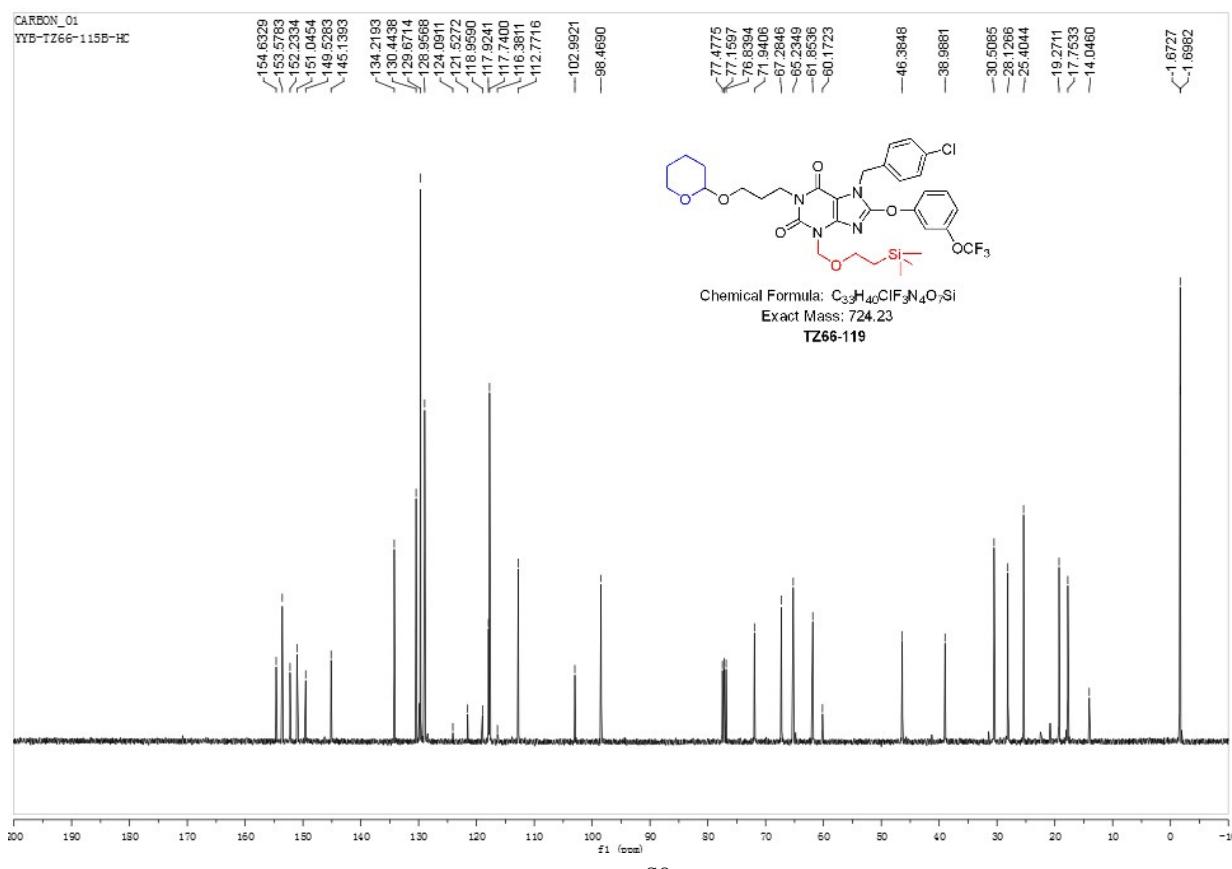
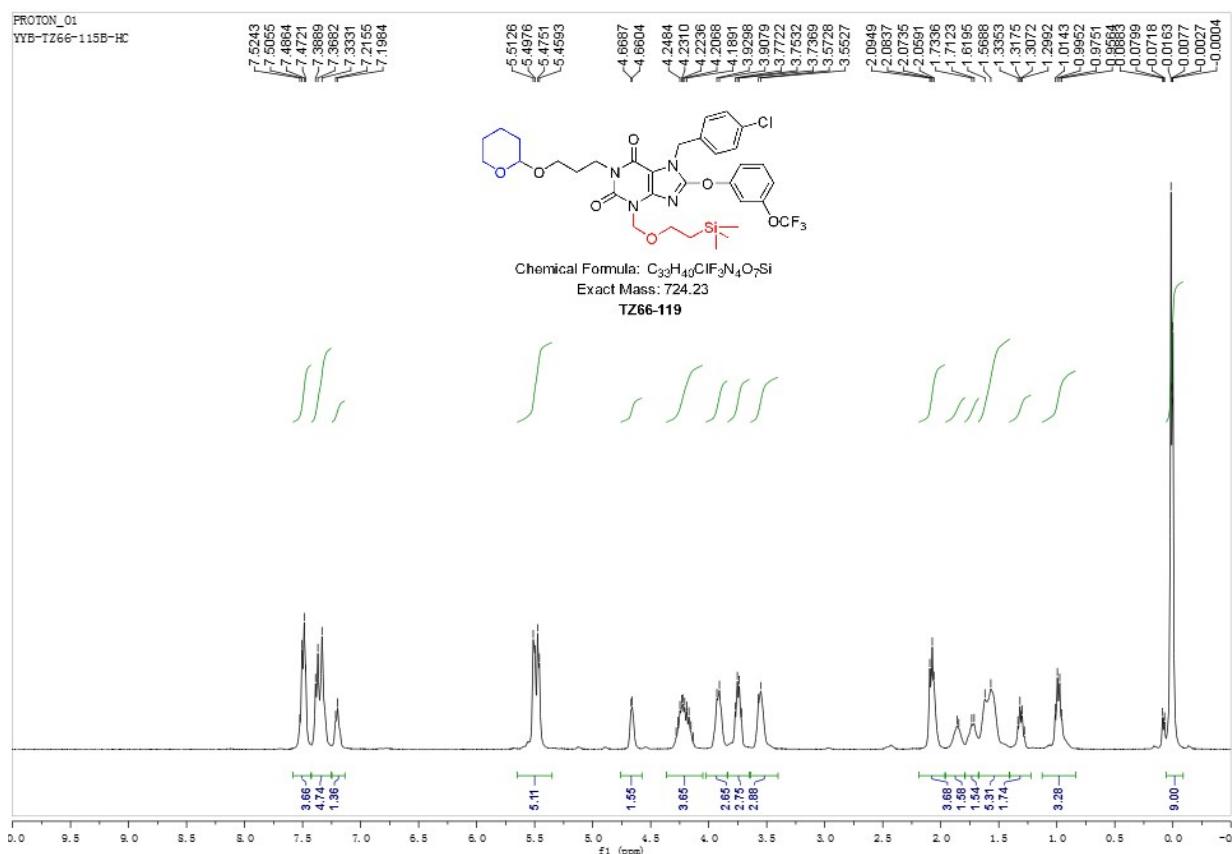
**8-Bromo-7-(4-chlorobenzyl)-3-((2-(trimethylsilyl)ethoxy)methyl)-3,7-dihydro-1H-purine-2,6-dione (4)**



**8-Bromo-7-(4-chlorobenzyl)-1-((tetrahydro-2H-pyran-2-yl)oxy)propyl-3-((2-(trimethylsilyl)ethoxy)methyl)-3,7-dihydro-1H-purine-2,6-dione (5)**



**7-(4-Chlorobenzyl)-1-(3-((tetrahydro-2H-pyran-2-yl)oxy)propyl)-8-(3-(trifluoromethoxy)phenoxy)-3-((2-(trimethylsilyl)ethoxy)methyl)-3,7-dihydro-1H-purine-2,6-dione (6)**



**7-(4-Chlorobenzyl)-1-(3-hydroxypropyl)-8-(3-(trifluoromethoxy)phenoxy)-3,7-dihydro-1*H*-purine-2,6-dione (7)**

