**Synthesis of novel (*E*)–1–(2–(2–(4(dimethylamino) benzylidene) hydrazinyl) –4–methylthiazol–5–yl)ethanone derivatives as Ecto–5ʹ–Nucleotidase Inhibitors**

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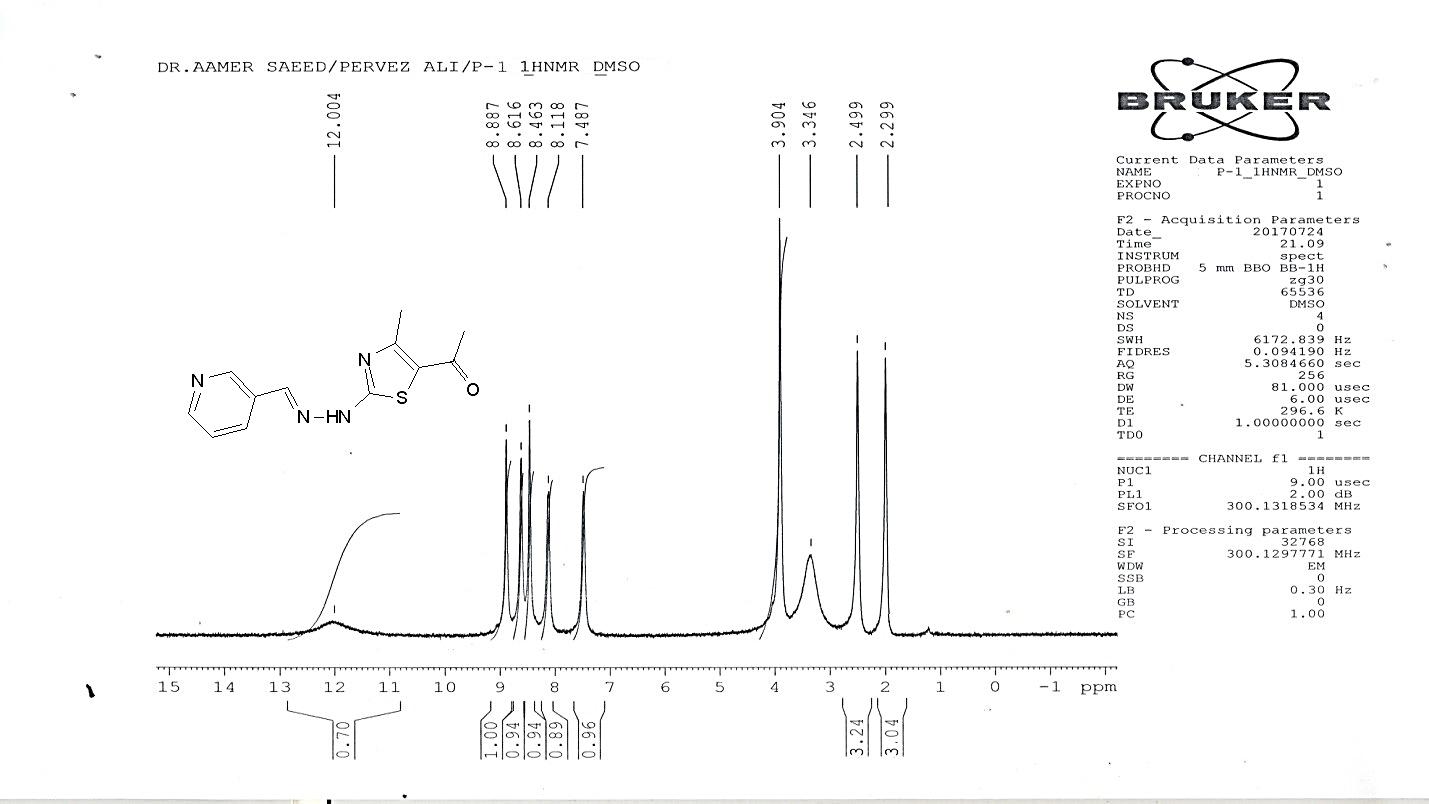
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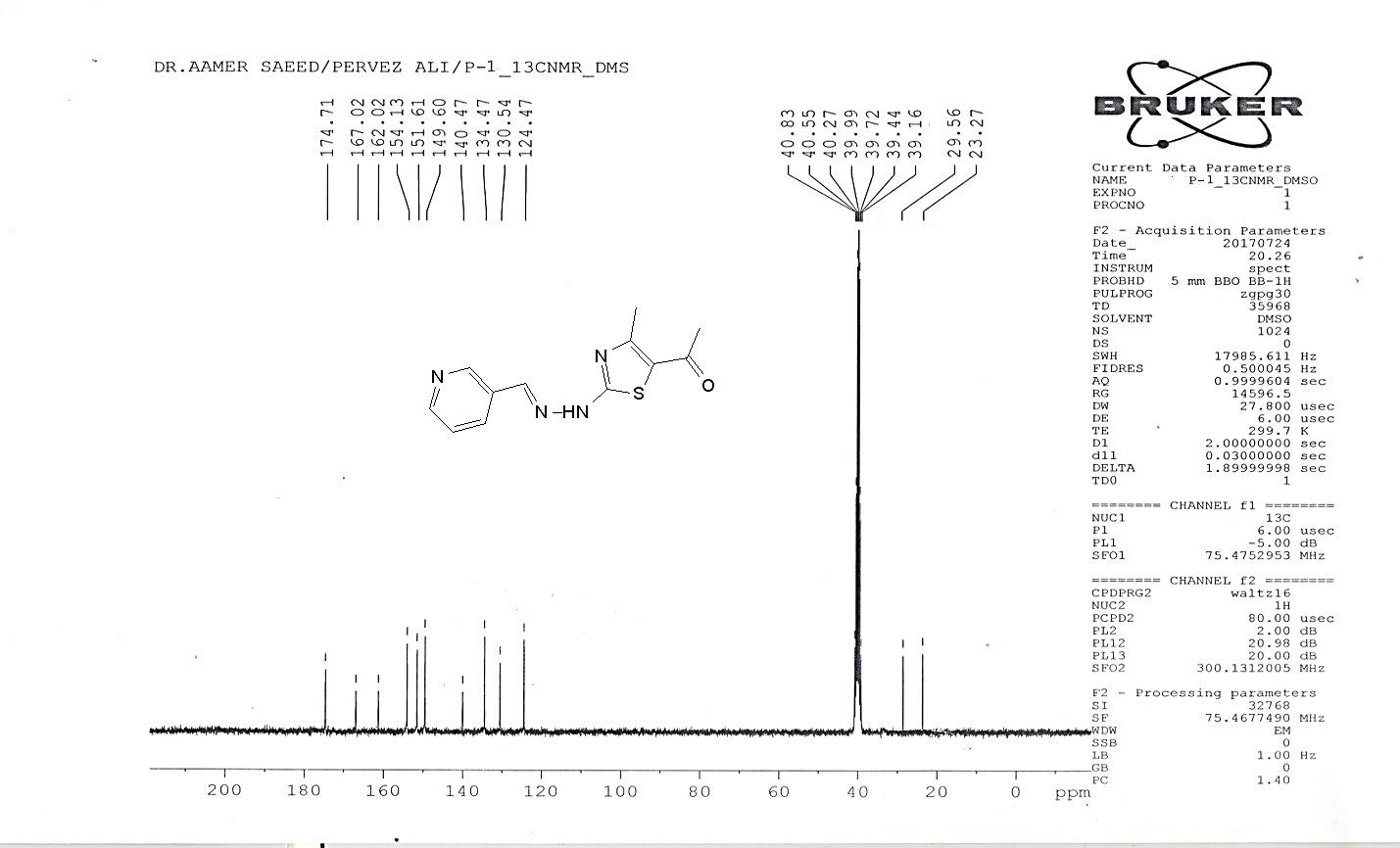
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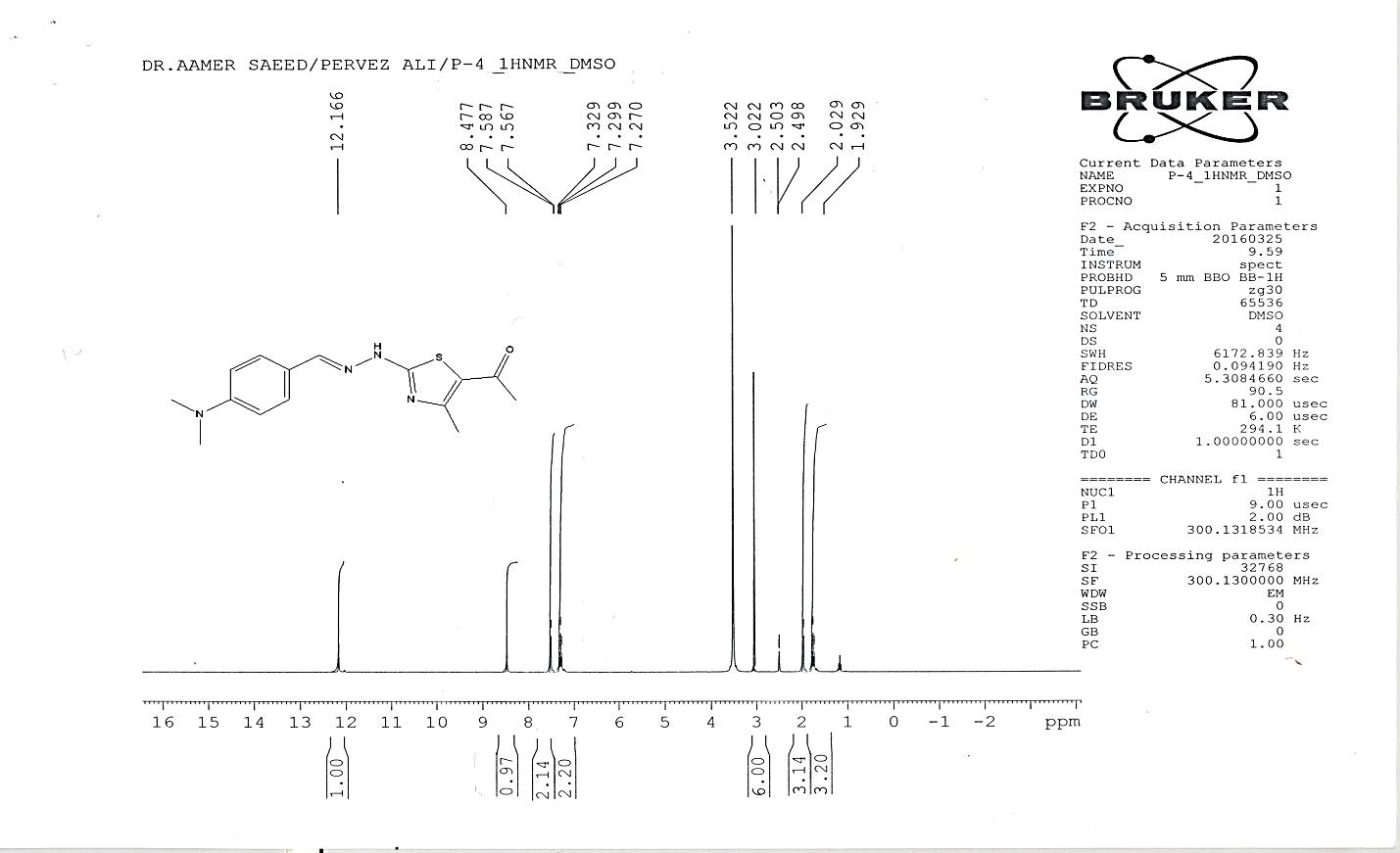
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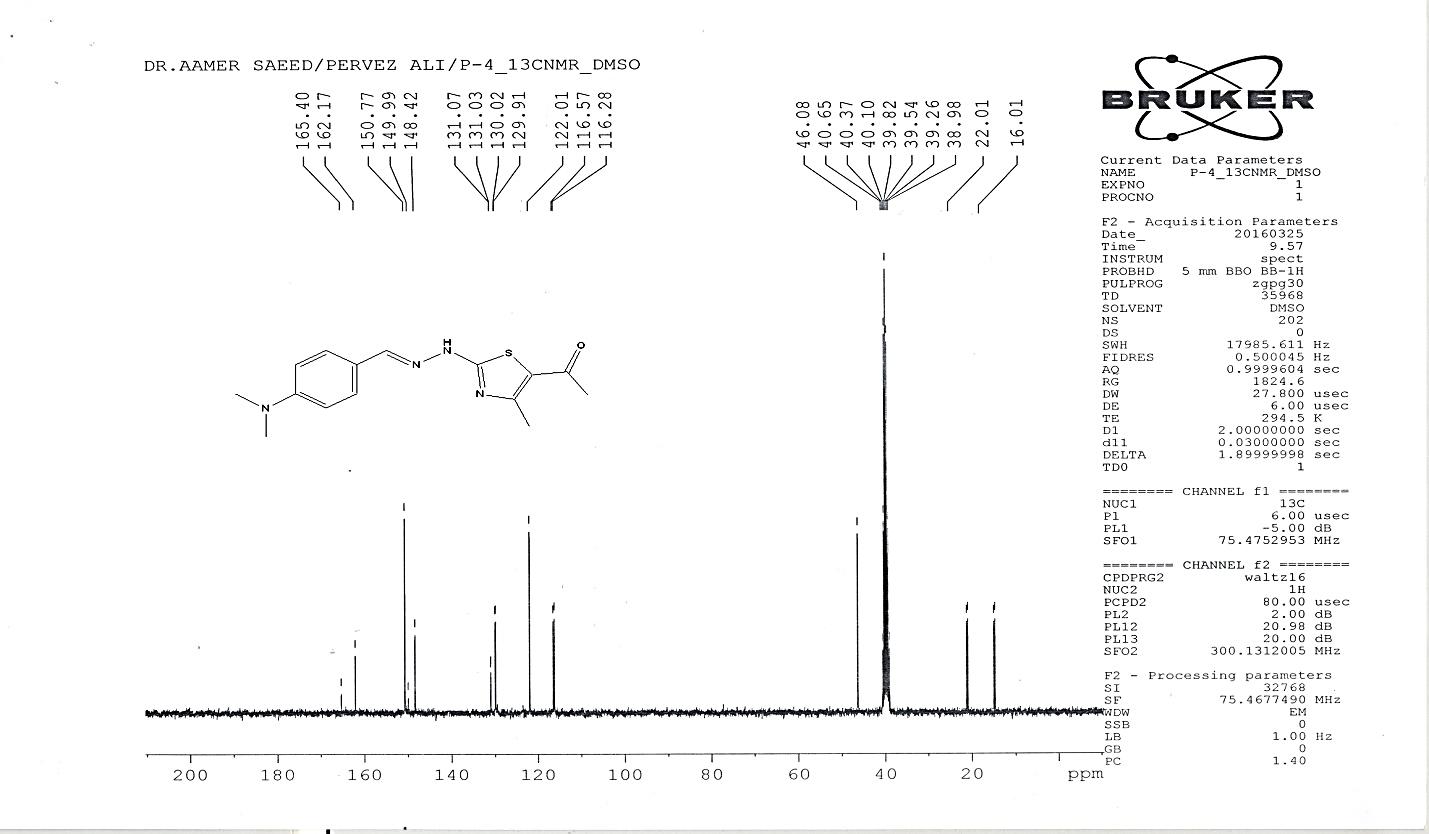
**Figure S1.** The 1HNMR spectra of *(E)-*1-(4-methyl-2-(2-(pyridin-3-ylmethylene) hydrazinyl) thiazol-5-yl)ethanone



**Figure S2.** The 13CNMR spectra of *(E)-*1-(4-methyl-2-(2-(pyridin-3-ylmethylene) hydrazinyl) thiazol-5-yl)ethanone

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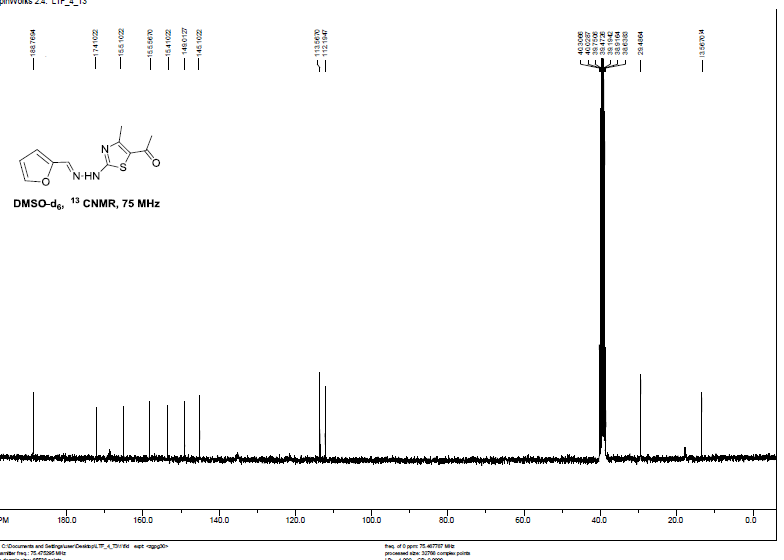
**Figure S3.** The 1HNMR spectra of *(E)-*1-(2-(2-(4-(dimethylamino) benzylidene)hydrazinyl)-4-methylthiazol-5-yl)ethanone

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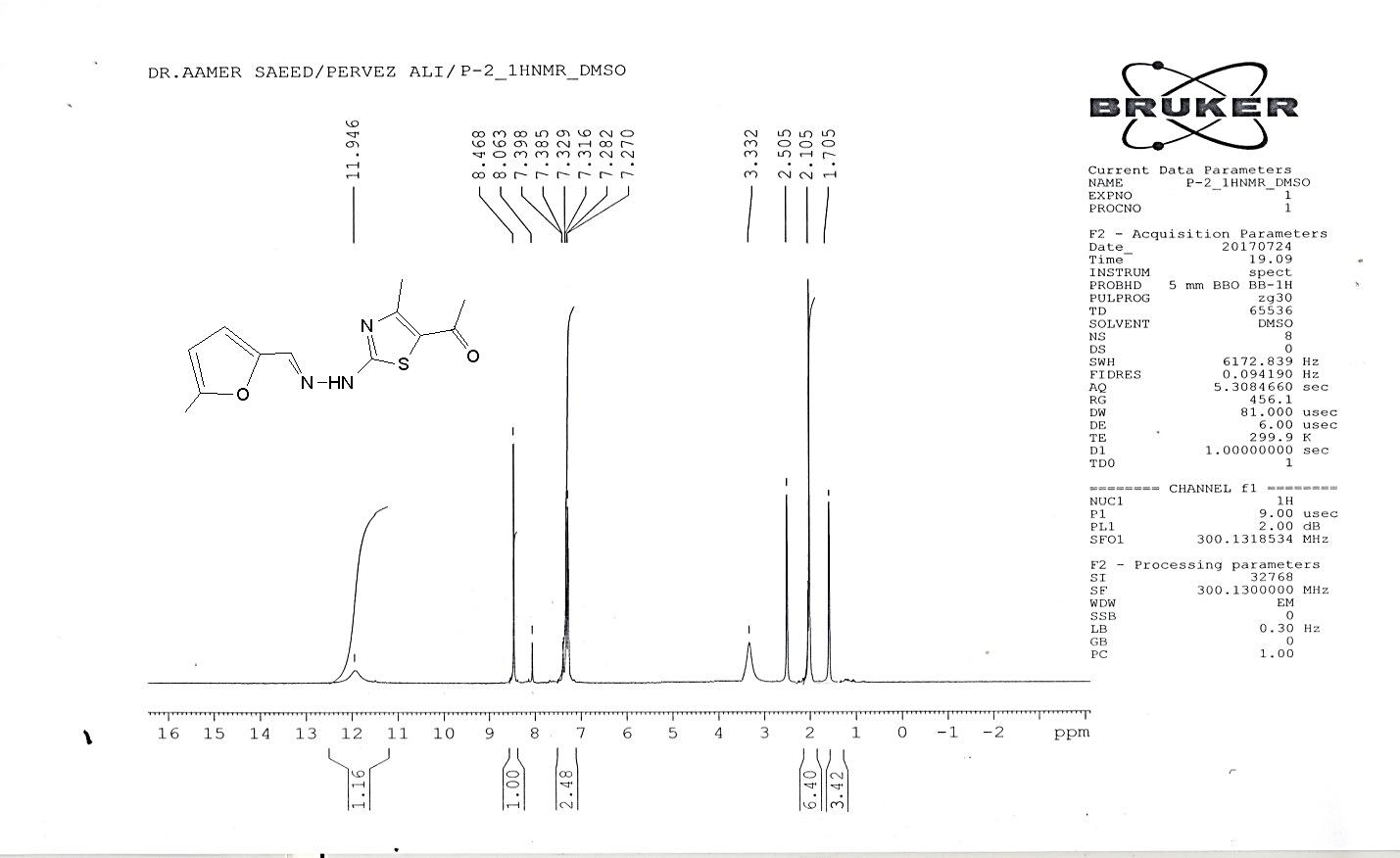
**Figure S4.** The 13CNMR spectra of *(E)-*1-(2-(2-(4-(dimethylamino) benzylidene)hydrazinyl)-4-methylthiazol-5-yl)ethanone



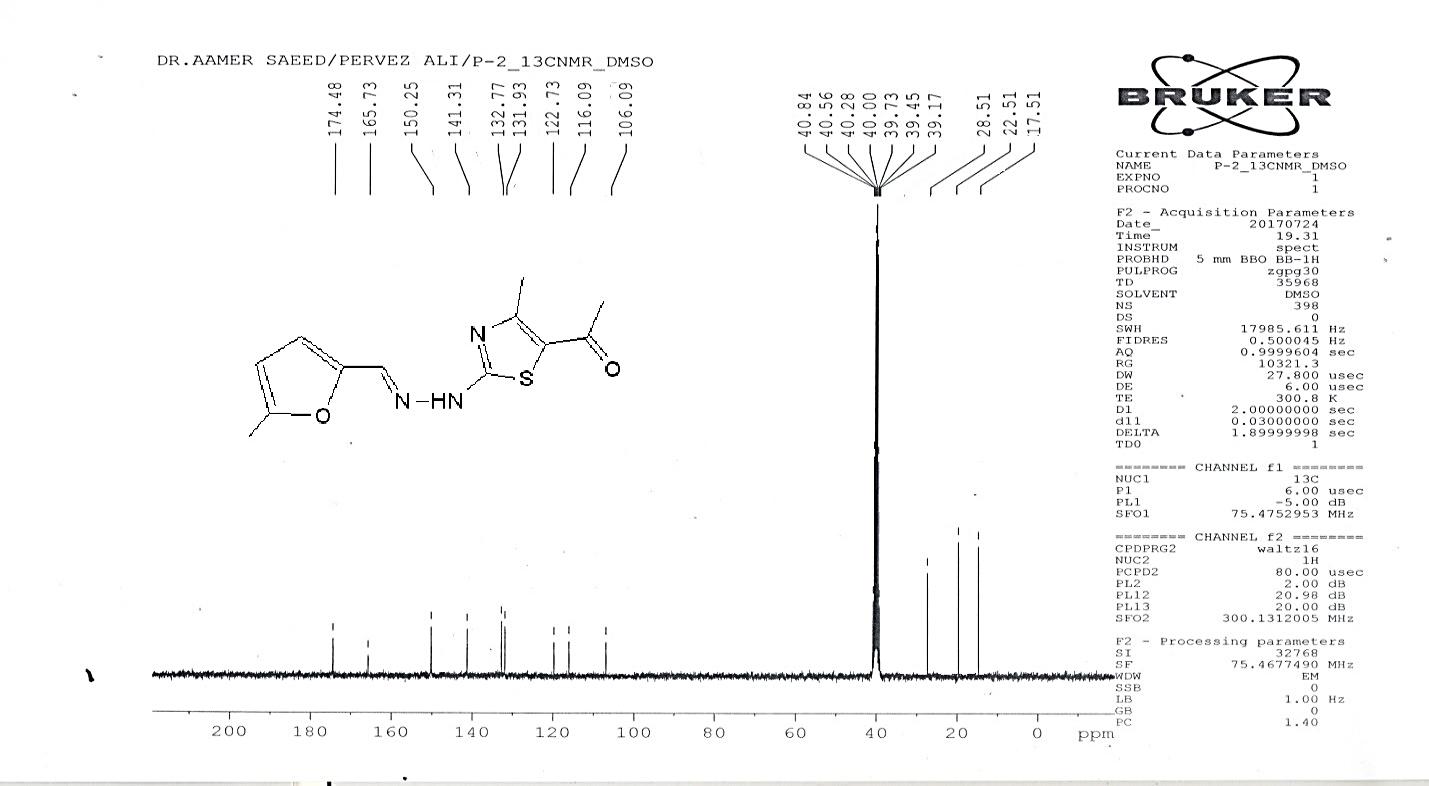
**Figure S5.** The 1HNMR spectra of *(E)-*1-(2-(2-(furan-2-ylmethylene)hydrazinyl)-4-methyl thiazol-5-yl)ethanone



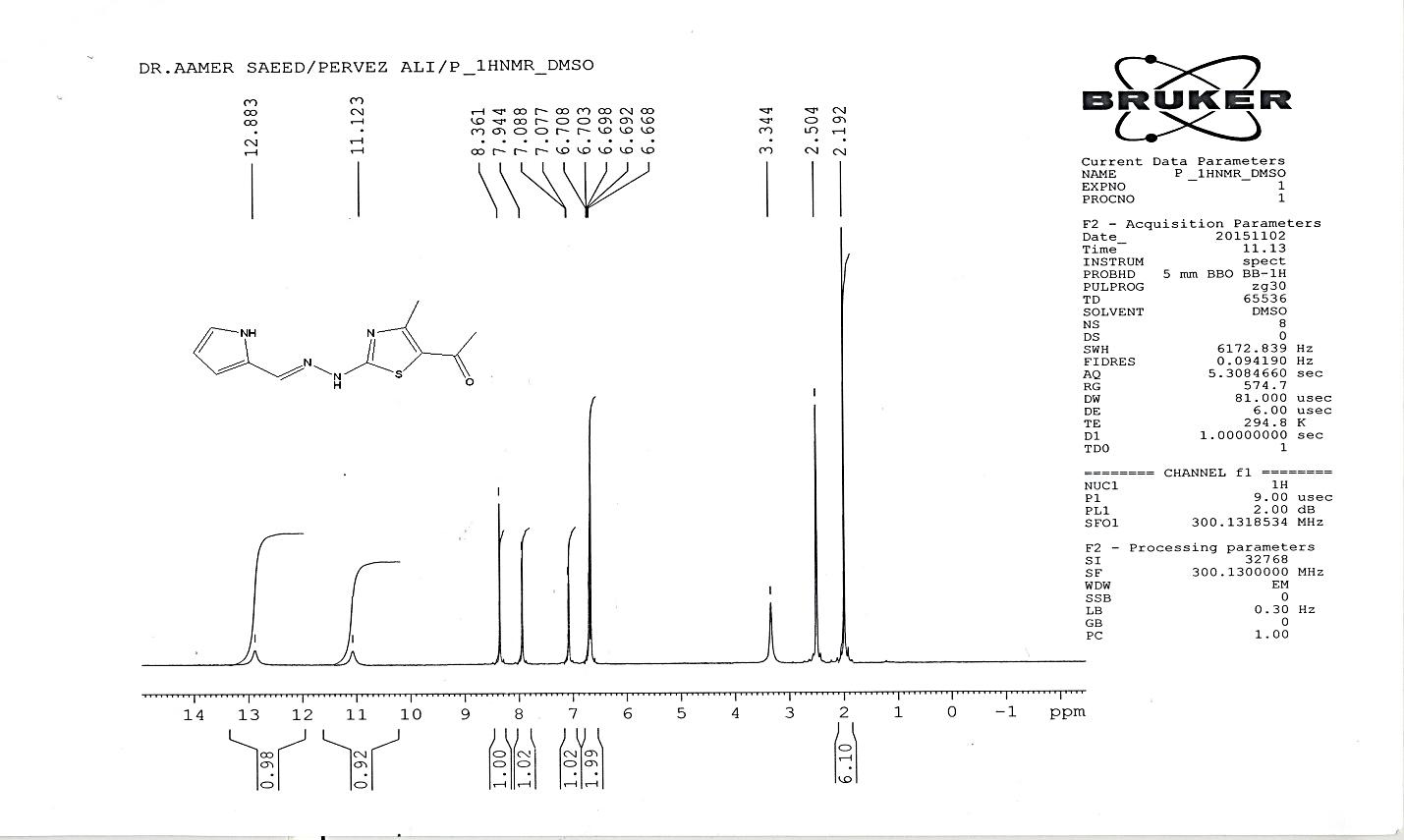
**Figure S6.** The 13CNMR spectra of (*E*)–1–(2–(2–(furan–2–ylmethylene)hydrazinyl)–4–methylthiazol–5–yl)ethanone

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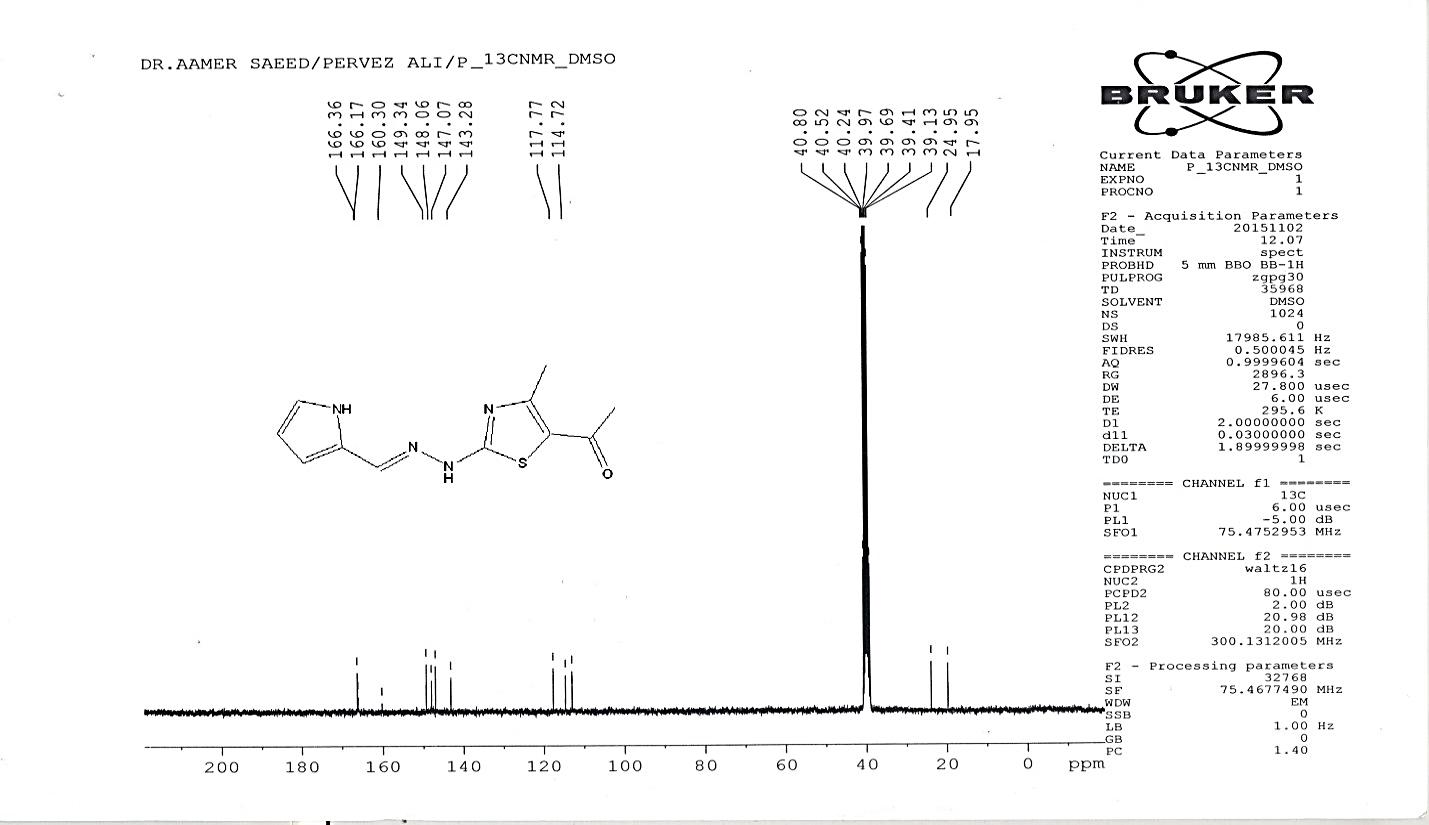
**Figure S7.** The 1HNMR spectra of *(E)-*1-(4-methyl-2-(2-((5-methylfuran-2-yl) methylene) hydrazinyl)thiazol-5-yl)ethanone

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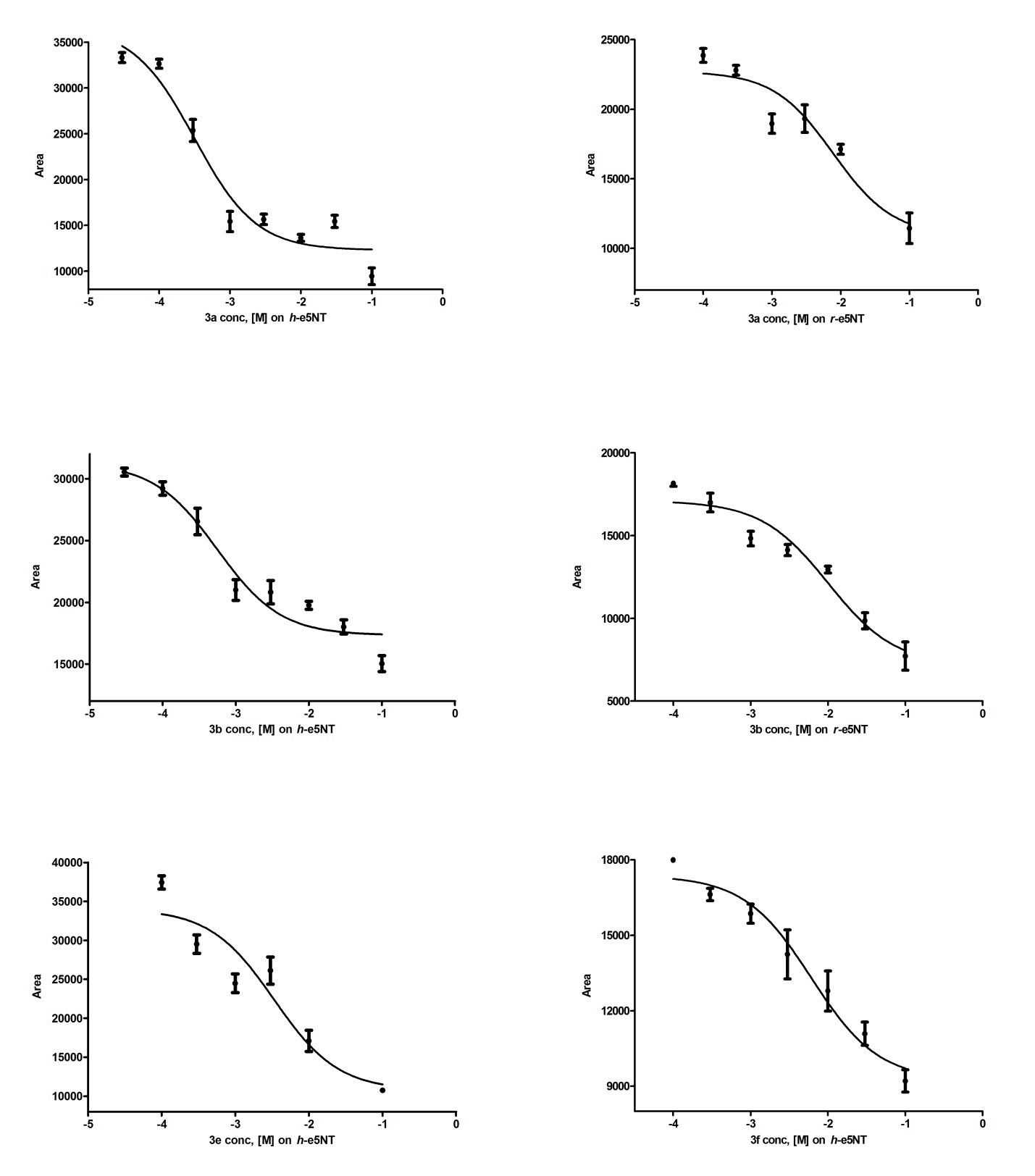
**Figure S8.** The 13CNMR spectra of *(E)-*1-(4-methyl-2-(2-((5-methylfuran-2-yl) methylene) hydrazinyl)thiazol-5-yl)ethanone

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**Figure S9.** The 1HNMR spectra of *(E)-*1-(2-(2-((1H-pyrrol-2-yl)methylene)hydrazinyl)-4-methylthiazol-5-yl)ethanone

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**Figure S10.** The 13CNMR spectra of *(E)-*1-(2-(2-((1H-pyrrol-2-yl)methylene)hydrazinyl)-4-methylthiazol-5-yl)ethanone



**Figure S11.** The IC50 data of test compounds on *h-*e5**ʹ**NT and *r-*e5**ʹ**NT enzymes.

The IC50 of 3a was 0.32 ± 0.03 on *h-*e5**ʹ**NT and 7.81 ± 0.89 on *r-*e5**ʹ**NT

The IC50 of 3b was 0.56 ± 0.07 on *h-*e5**ʹ**NT and 10.1 ± 0.58 on *r-*e5**ʹ**NT

The IC50 of 3e was 3.36 ± 0.12 on *h-*e5**ʹ**NT

The IC50 of 3f was 6.19 ± 0.32 on *h-*e5**ʹ**NT

1. [↑](#footnote-ref-1)