**Supplementary Information**

S-1 (a) FTIR spectrum of **1** (b) FTIR spectra of DAHO ligand and **2**

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| (a) | (b) |

S-2 UV-Vis spectrum of **1** obtained in aqueous solution (a-b); UV-Vis spectrum of **2** obtained in aqueous solution (c-d) and in DMSO solution (e-f)

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| D:\Semicarbazone manuscript\2PCS complexes\Semicarazone and oxime\Complex 1 UV vis(a).tif | D:\Semicarbazone manuscript\2PCS complexes\Semicarazone and oxime\Complex 1 UV vis(b).tif |
| (a) | (b) |
| D:\Semicarbazone manuscript\2PCS complexes\Semicarazone and oxime\Complex 2 UV vis(c).tif | D:\Semicarbazone manuscript\2PCS complexes\Semicarazone and oxime\Complex 2 UV vis(d).tif |
| © | (d) |
|  |  |
| (e) | (f) |

S-3 (a) TGA and DTA curves of **1** (b) TGA and DTA curves of **2**

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| --- | --- |
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| (a) | (b) |
|  |  |
| (c) | (d) |

S-4 EPR spectra of 2 (a) at LNT obtained from solid powder and (b) at RT from MeOH solution

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| (a) | (b) |