

Electronic Supplementary Information (ESI) for the article “**Interplay of weak noncovalent interactions in alkoxybenzylidene derivatives of benzohydrazide and acetohydrazide: A combined experimental and theoretical investigation and lipoxigenase inhibition (LOX) studies**” by Muhammad Naeem Ahmed^{1*}, Muneeba Arif¹, Hina Andleeb^{2,3}, Syed Wadood Ali Shah⁴, Ifzan Arshad², Muhammad Nawaz Tahir⁵, Mariana Rocha⁶, Diego M. Gil^{6,+,*}

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Figure S1. IR spectra of compounds **1-3** in solid state.

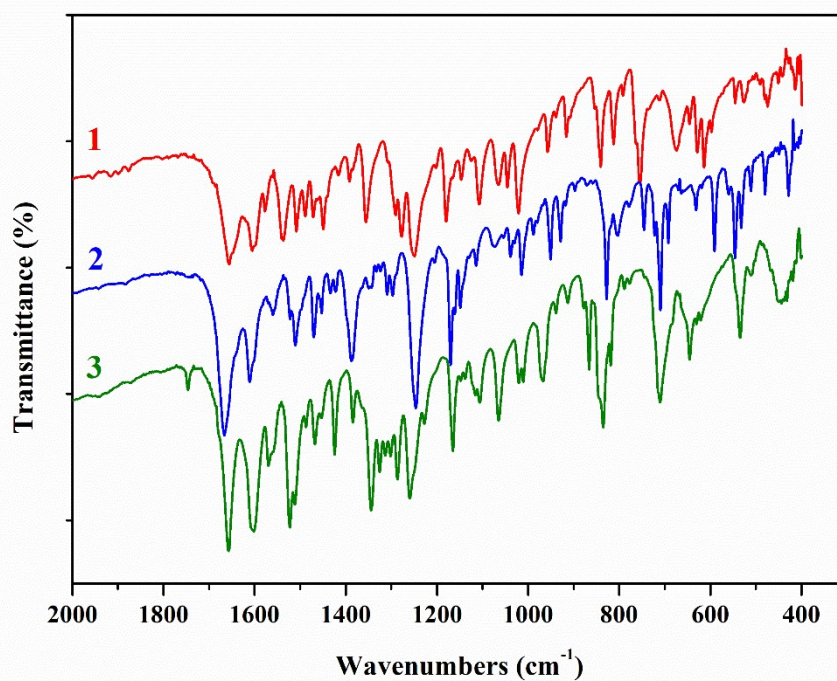


Figure S2. Electronic spectra of compounds **1-3** in ethanol as solvent.

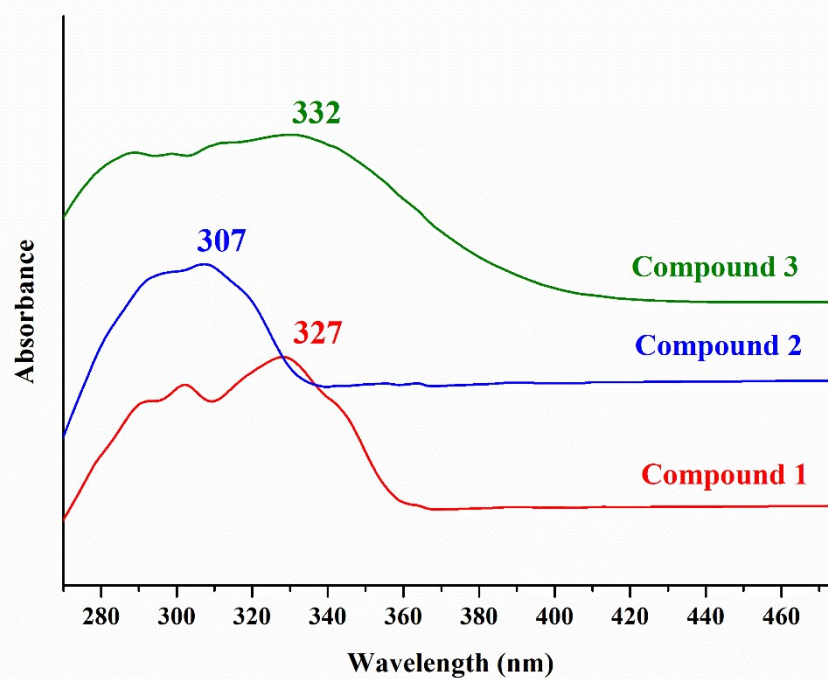


Figure S3. Optimized molecular structure of compound **1** calculated at B3LYP/6-311G(d,p) level of theory.

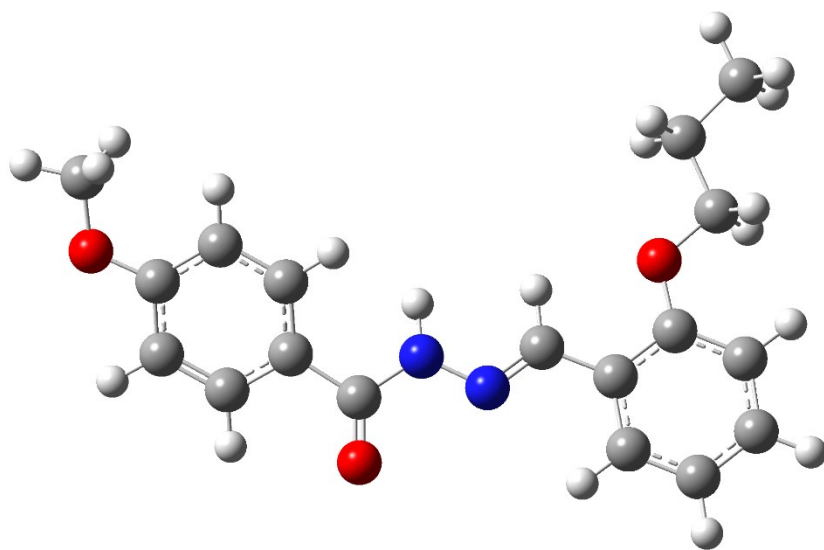


Figure S4. Optimized molecular structure of compound **2** calculated at B3LYP/6-311G(d,p) level of theory.

