

**Supplementary Information**  
**Synthesis, spectral characterization and anti-diabetic activity**  
**evaluation of phosphoramidate derivatives**

D Ravikumar<sup>a</sup>, Ch Subramanyam<sup>a</sup>, Ch Venkataramaiah<sup>b</sup>, W Rajendra<sup>b</sup> & K Prasada Rao\*<sup>a</sup>

<sup>a</sup>Department of Chemistry, Bapatla Engineering College, Bapatla 522 101, India

<sup>b</sup>Division of Molecular Biology, Department of Zoology, Sri Venkateswara University, Tirupati 517 502, India

Received 22 December 2019; accepted (revised) 6 December 2021

E-mail: prasad17467@gmail.com

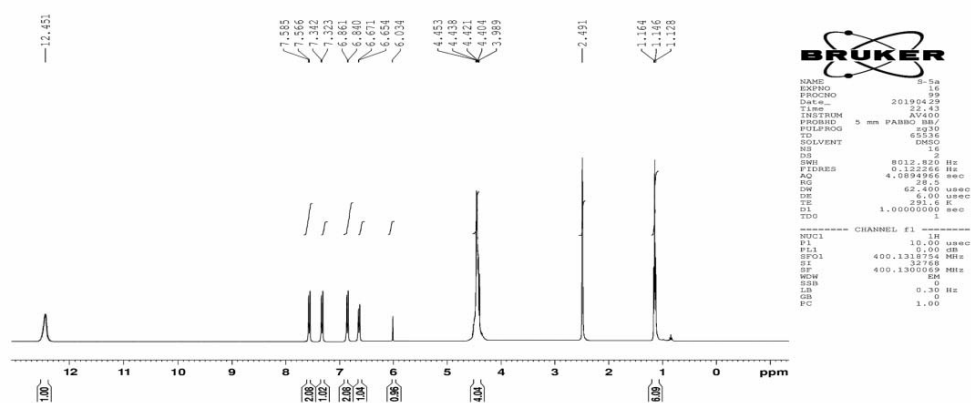


Figure S1 — <sup>1</sup>H Spectrum of compound 5a

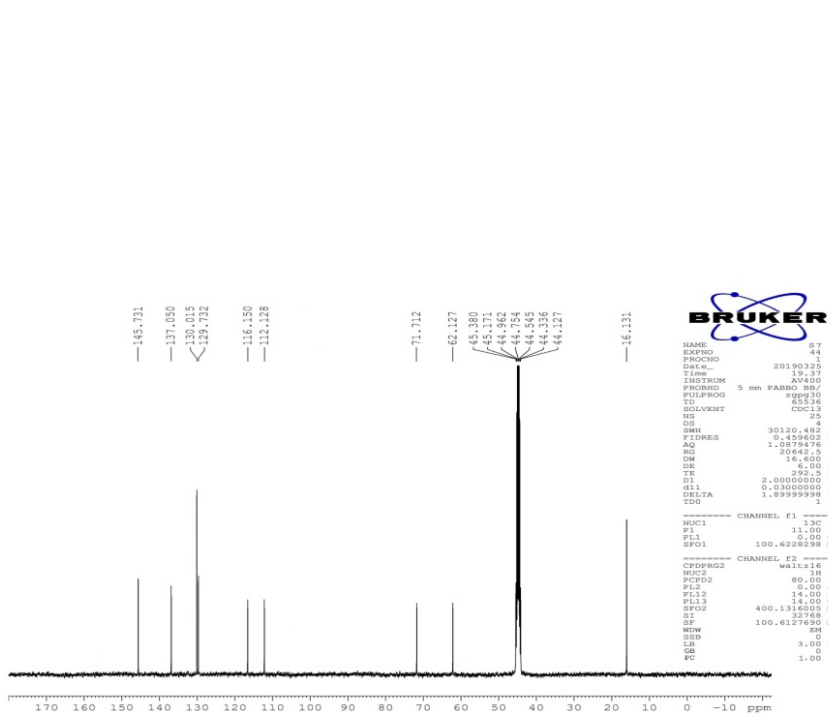


Figure S2 —  $^{13}\text{C}$  Spectrum of compound **5a**

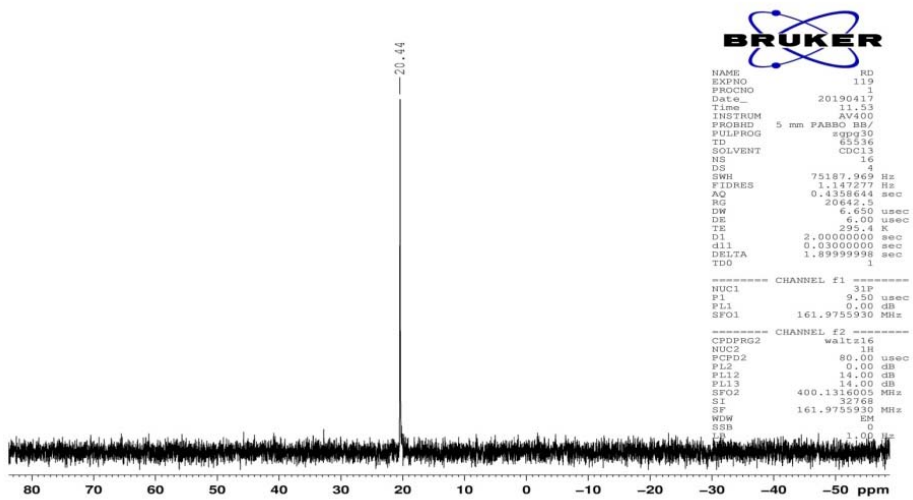
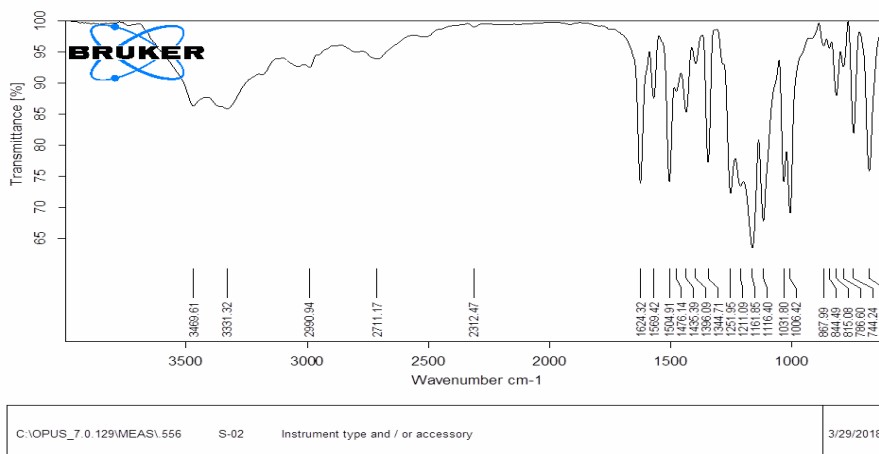


Figure S3 —  $^{31}\text{P}$  Spectrum of compound **5a**

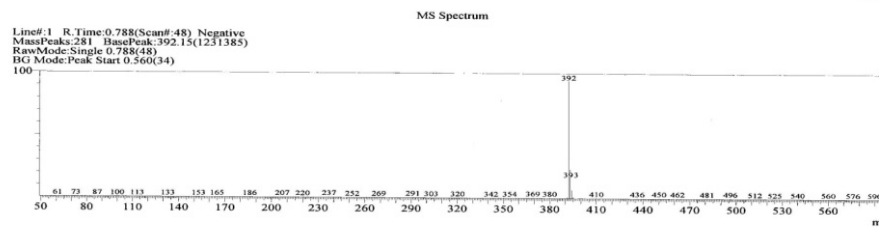
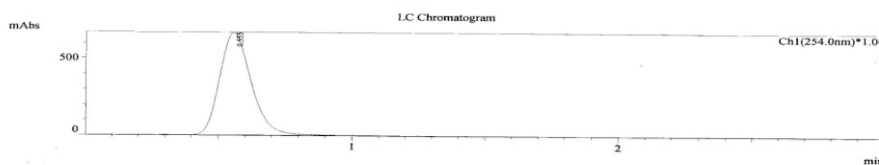


Page 1/1

Figure S4 — IR Spectrum of compound 5a

LCMS-2010A DATA REPORT  
SHIMADZU

User : Admin  
Sample : S-5a  
Inj. Volume : 5.000  
Data Name : C:\LCMSsolution\User\Data\S-3-5-APCI-NEG1.qld  
Method Name : C:\LCMSsolution\User\Method\esi.qlm



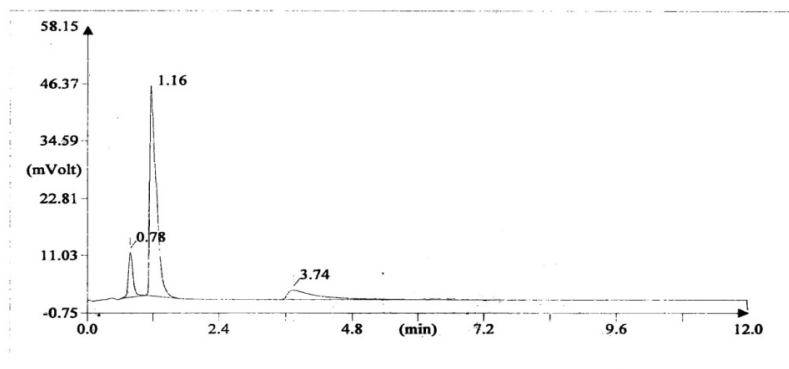
Line#1 R.Time:0.788(Scan#:48) Negative  
MassPeaks:281 BasePeak:392.15(1231385)  
RawMode:Single 0.788(48)  
BG Mode:Peak Start 0.560(34)

Peak#	R.Time	I.Time	F.Time	Area	Height	A/H	Mark	%Total	Name	Base m/z	Base Int.
1	0.788	0.560	1.060	14045492	1495748	9.39		100.00		392.15	1231385
				14045492	1495748			100.00			

Figure S5 — Mass Spectrum of compound 5a

FLASH EA 1112 SERIES CHN REPORT  
THERMO FINNIGAN

Method filename: E:\Program Files\Thermo Finnigan\Eager 300 for EA1112\DATA\Sys\_data\_ex  
Sample ID: R-5  
Analysis type: UnkNown  
Chromatogram filename: UNK-15042019-4.dat  
Sample weight: 1.215



Element Name	Element %	Ret. Time
Nitrogen	10.83	0.78
Carbon	39.95	1.16
Hydrogen	4.57	3.74

Figure S6 — CHN analysis of compound **5a**