

**Bio-oriented synthesis of novel ibuprofen derivatives for enhancement
efficacy in post-operative and chronic inflammatory pain models**

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Copies of ^1H -NMR, ^{13}C -NMR and HRMS spectra of compounds.

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Dr. Ajmal / NS-1 / DMSO
PROTON

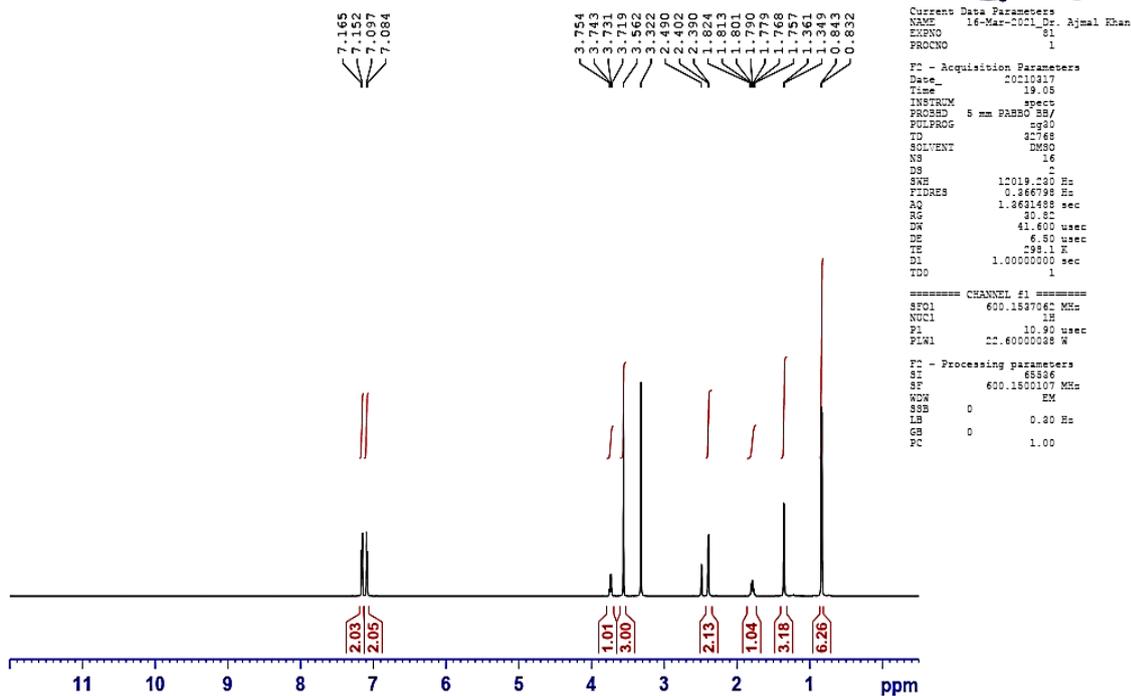


Figure S1: ^1H NMR spectrum (600 MHz, CDCl_3) of compound NS1

Dr. Ajmal / NS-1 / DMSO
C13CPD

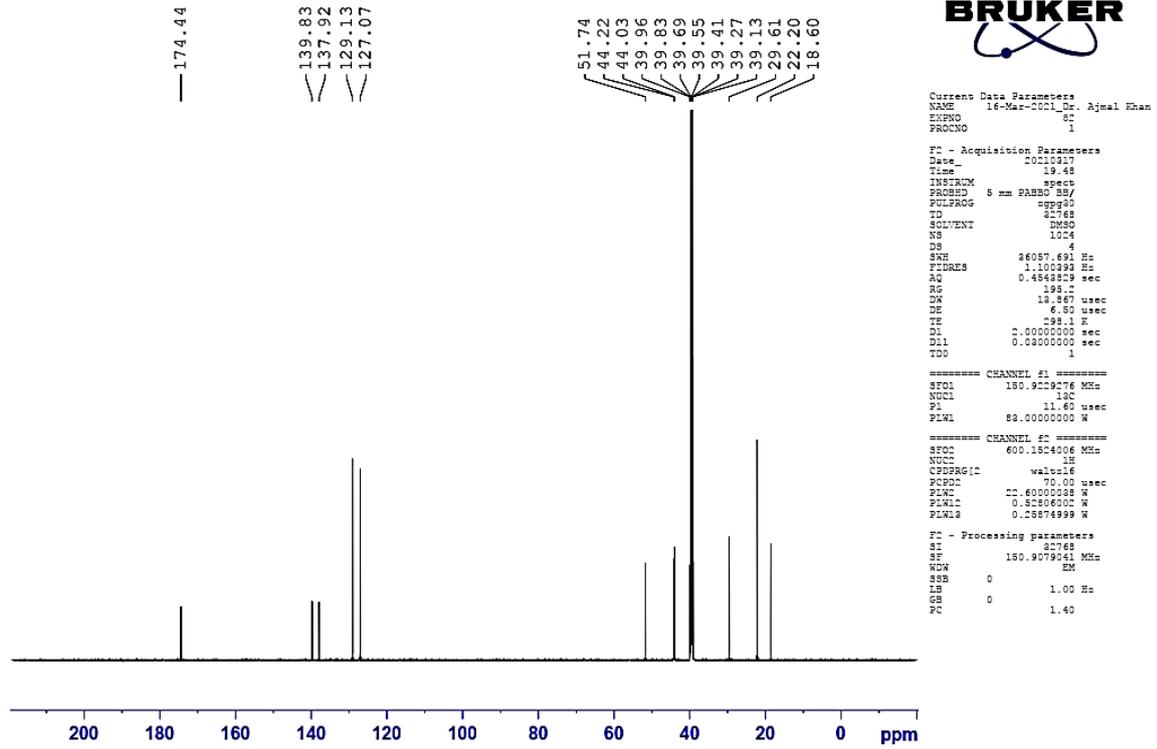


Figure S2: ^{13}C NMR spectrum (150 MHz, CDCl_3) of compound NS1

Sample Name	NS-1	Position	Vial 1	Instrument Name	Instrument 1
User Name		Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	NS-1.d
ACQ Method	POSITIVE ION METHOD MS_FOR_DMSO.m	Comment		Acquired Time	02-Feb-23 1:42:42 PM

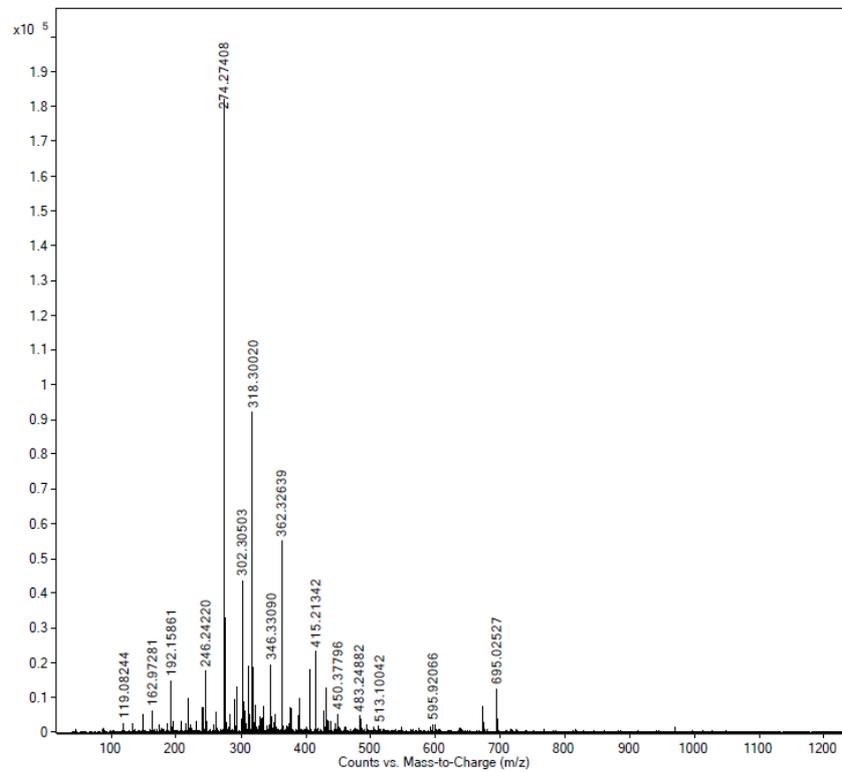


Figure S3: HRMS spectrum of compound NS1

Dr. Ajmal / NS-2 / DMSO
PROTON

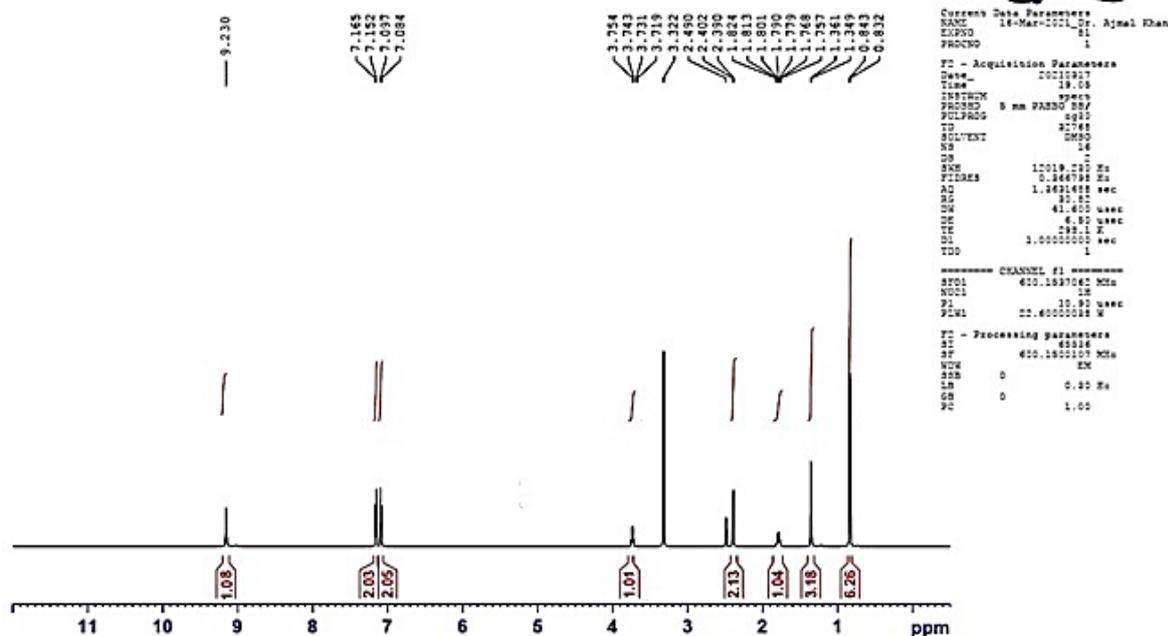


Figure S4: ^1H NMR spectrum (600 MHz, CDCl_3) of compound NS2

Dr. Ajmal / NS-2 / DMSO
C13CPD

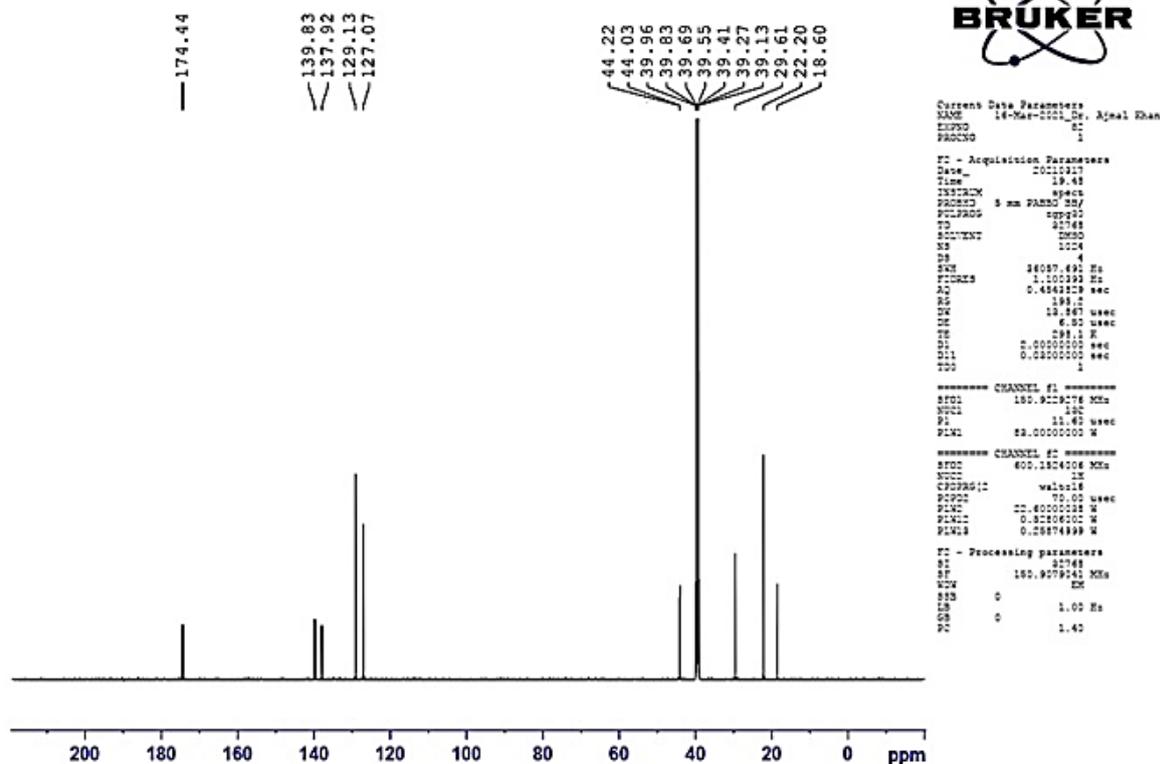


Figure S5: ^{13}C NMR spectrum (150 MHz, CDCl_3) of compound NS2

Sample Name	NS-2	Position	Vial 2	Instrument Name	Instrument 1
User Name		Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	NS-2.d
ACQ Method	POSITIVE ION METHOD MS_FOR_DMSO.m	Comment		Acquired Time	02-Feb-23 1:48:31 PM

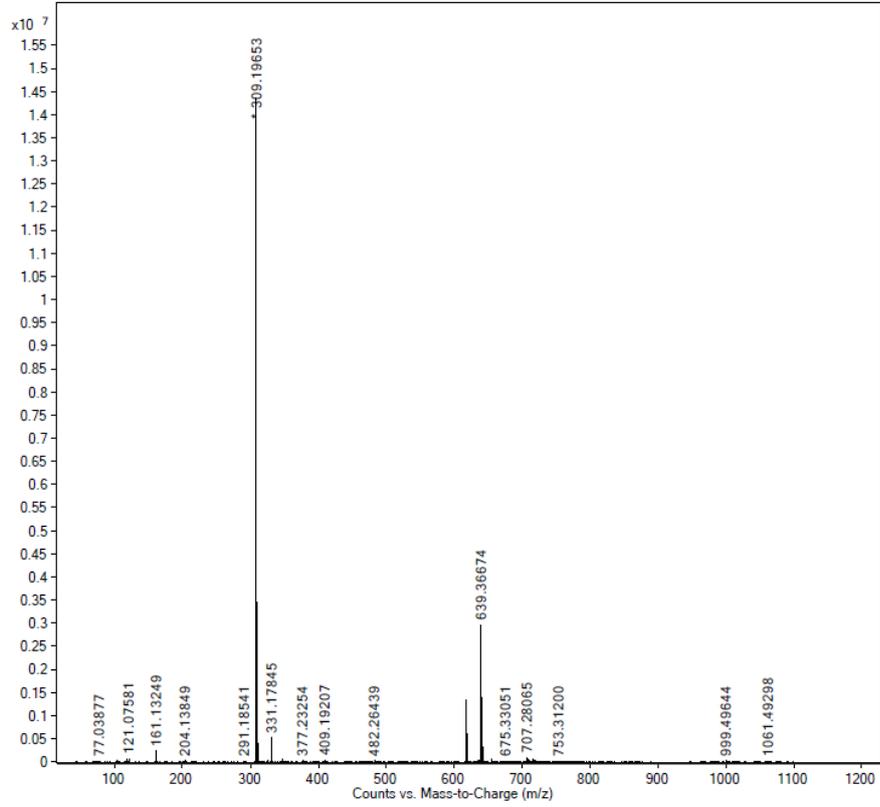


Figure S6: HRMS spectrum of compound NS2

Dr. Ajmal / NS-3 / DMSO
PROTON

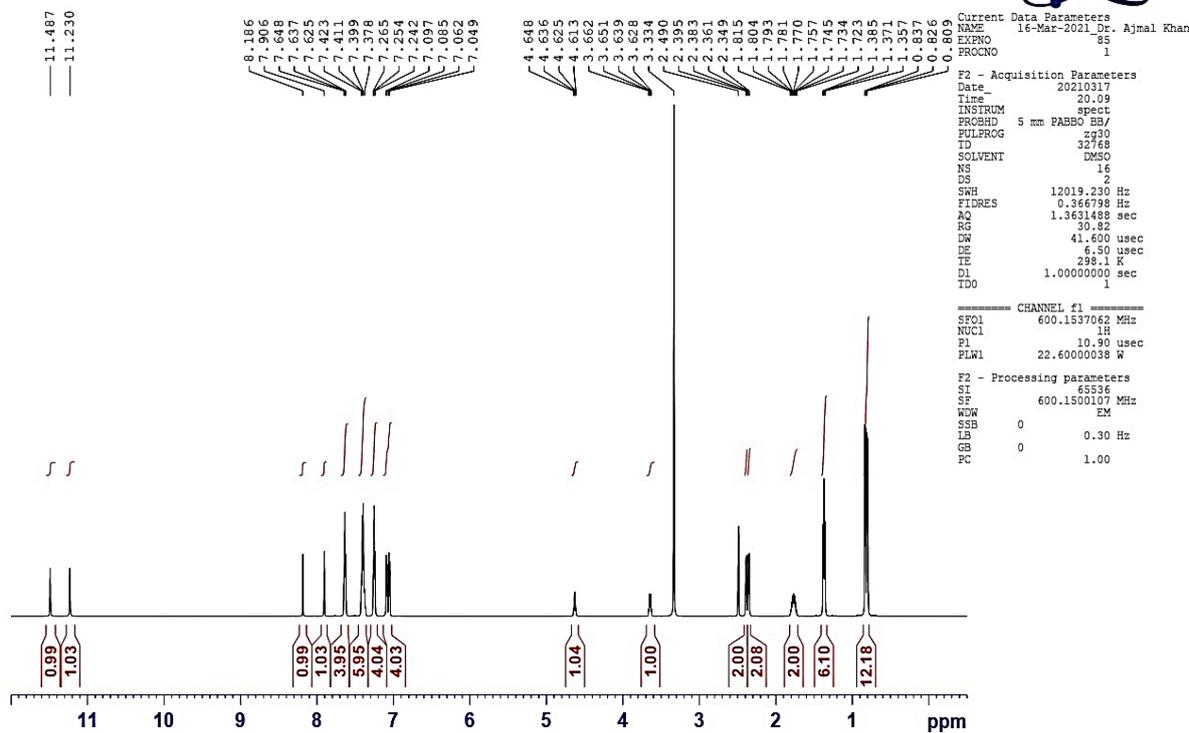


Figure S7: ^1H NMR spectrum (600 MHz, CDCl_3) of compound NS3

Dr. Ajmal / NS-3 / DMSO
C13CPD

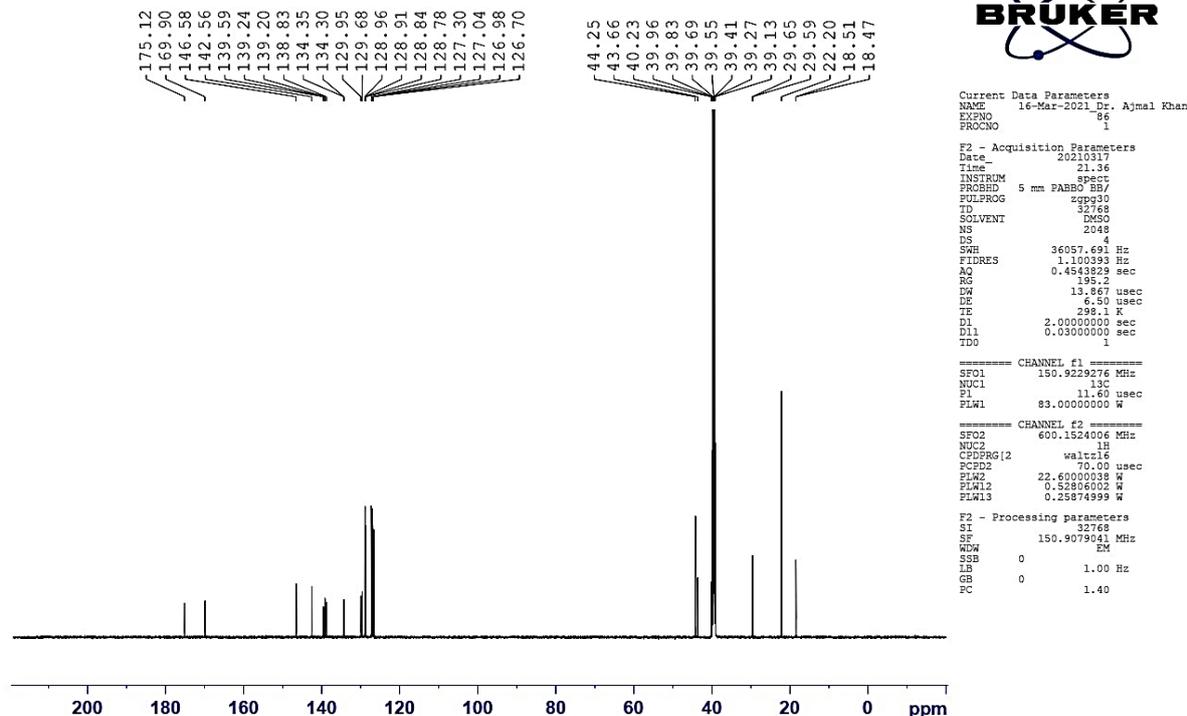


Figure S8: ^{13}C NMR spectrum (150 MHz, CDCl_3) of compound NS3

Sample Name	NS-3	Position	Vial 3	Instrument Name	Instrument 1
User Name		Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	NS-3.d
ACQ Method	POSITIVE ION METHOD MS_FOR_DMSO.m	Comment		Acquired Time	02-Feb-23 1:54:25 PM

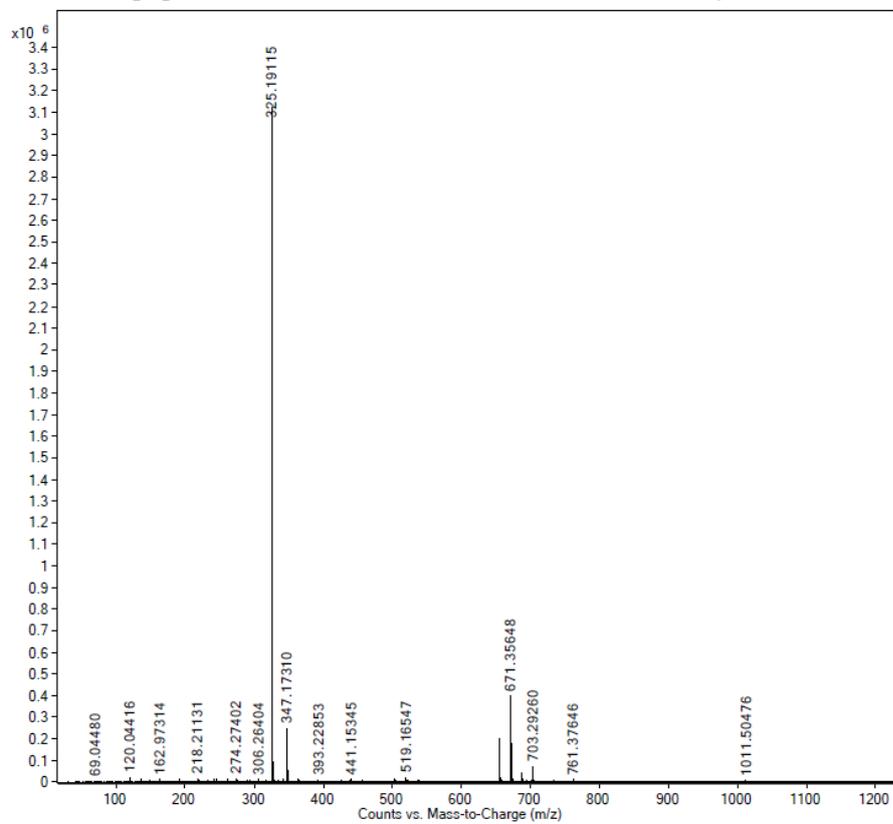


Figure S9: HRMS spectrum of compound NS3

Dr. Ajmal / NS-4 / DMSO
PROTON

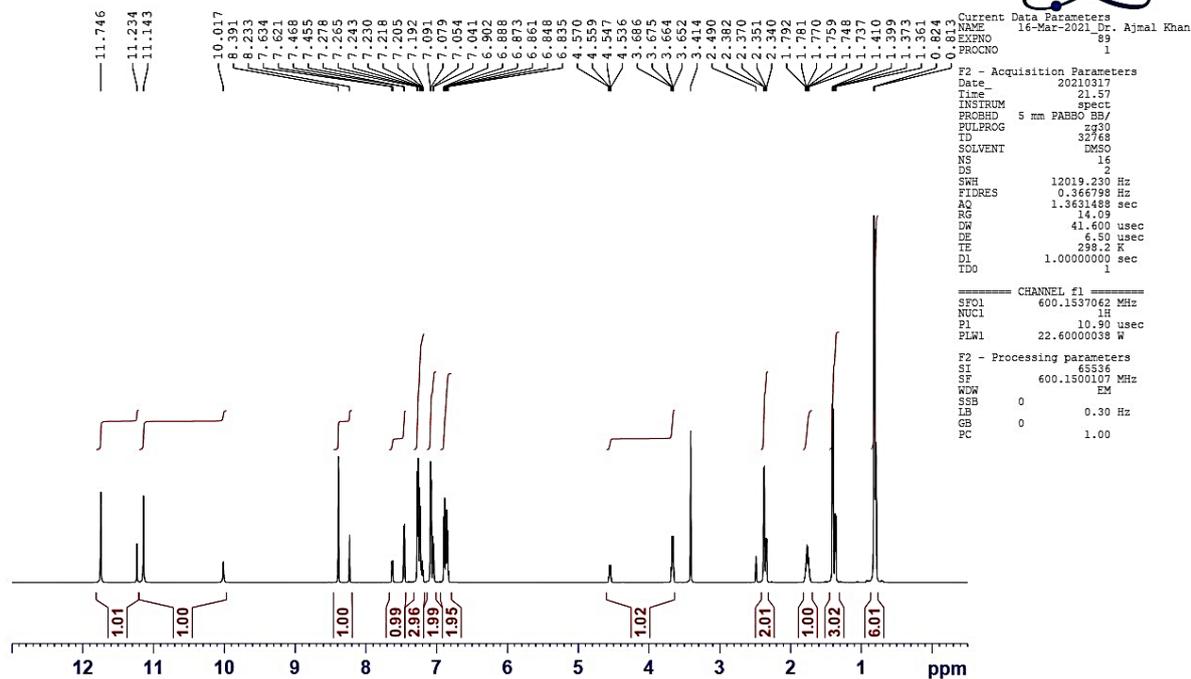


Figure S10: ^1H NMR spectrum (600 MHz, CDCl_3) of compound NS4

Dr. Ajmal / NS-4 / DMSO
C13CPD

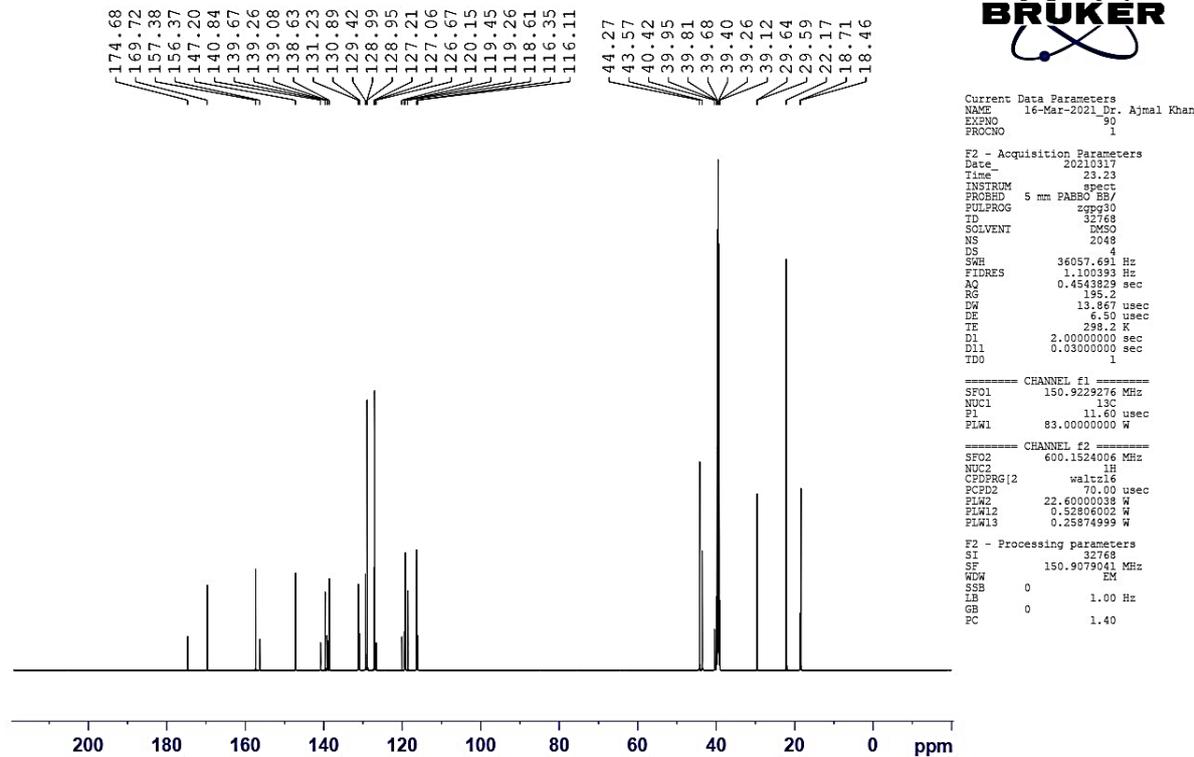


Figure S11: ^{13}C NMR spectrum (150 MHz, CDCl_3) of compound NS4

Sample Name	NS-4	Position	Vial 4	Instrument Name	Instrument 1
User Name		Inj Vol	5	InjPosition	
Sample Type	Sample	IRM Calibration Status	Success	Data Filename	NS-4.d
ACQ Method	POSITIVE ION METHOD MS_FOR_DMSO.m	Comment		Acquired Time	02-Feb-23 2:00:20 PM

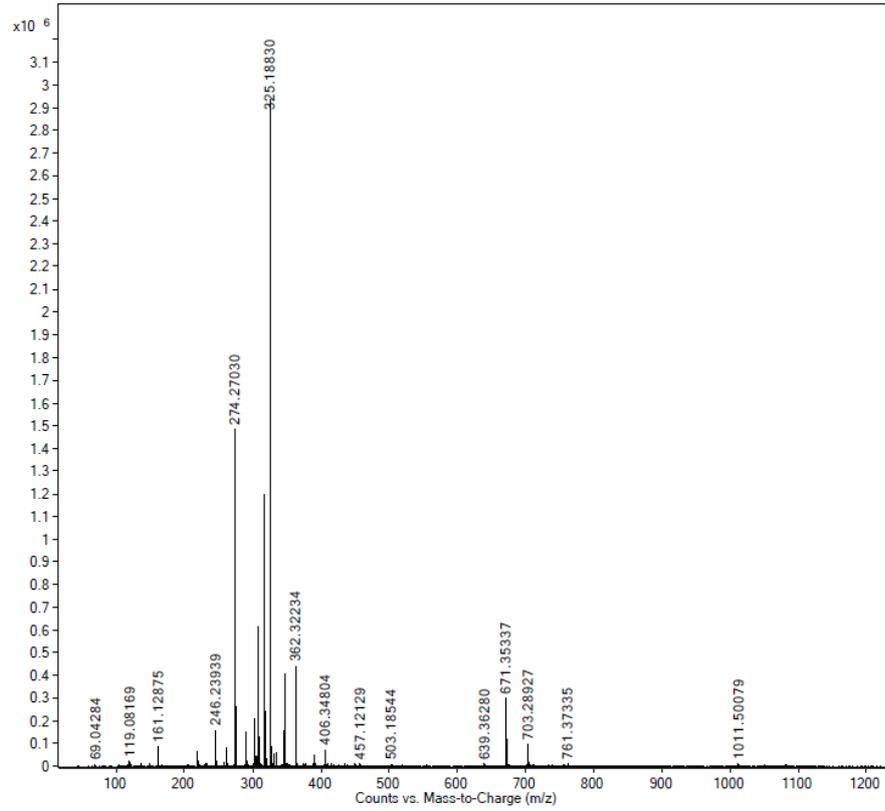


Figure S12: HRMS spectrum of compound NS4