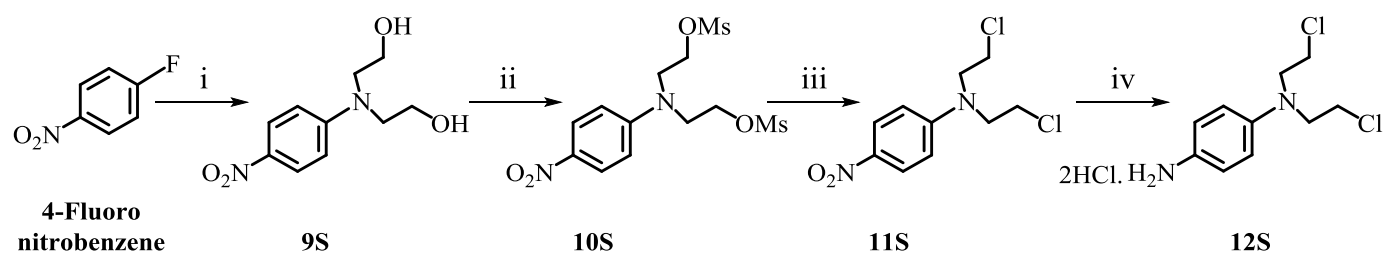
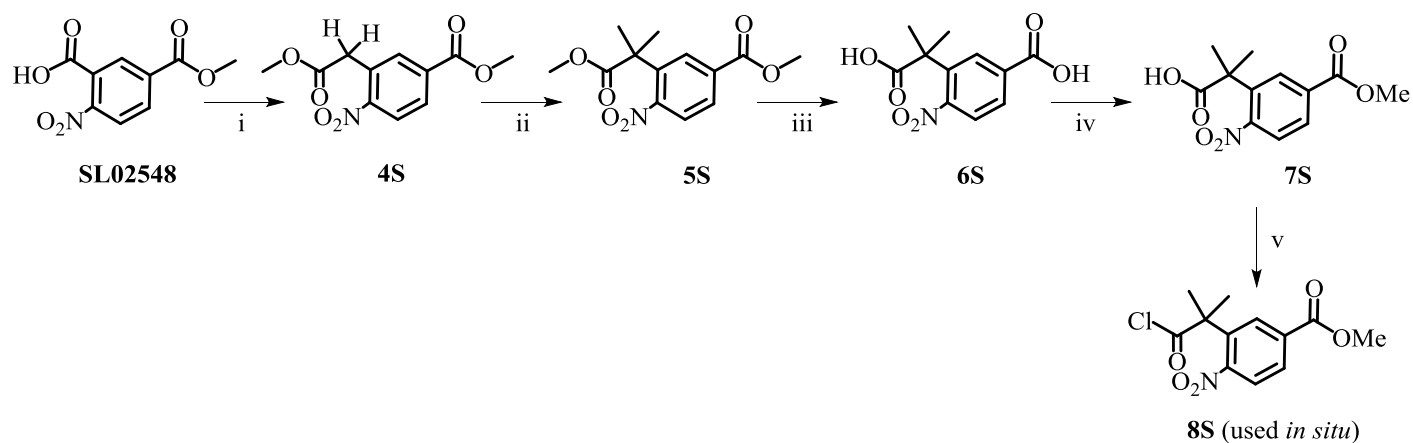
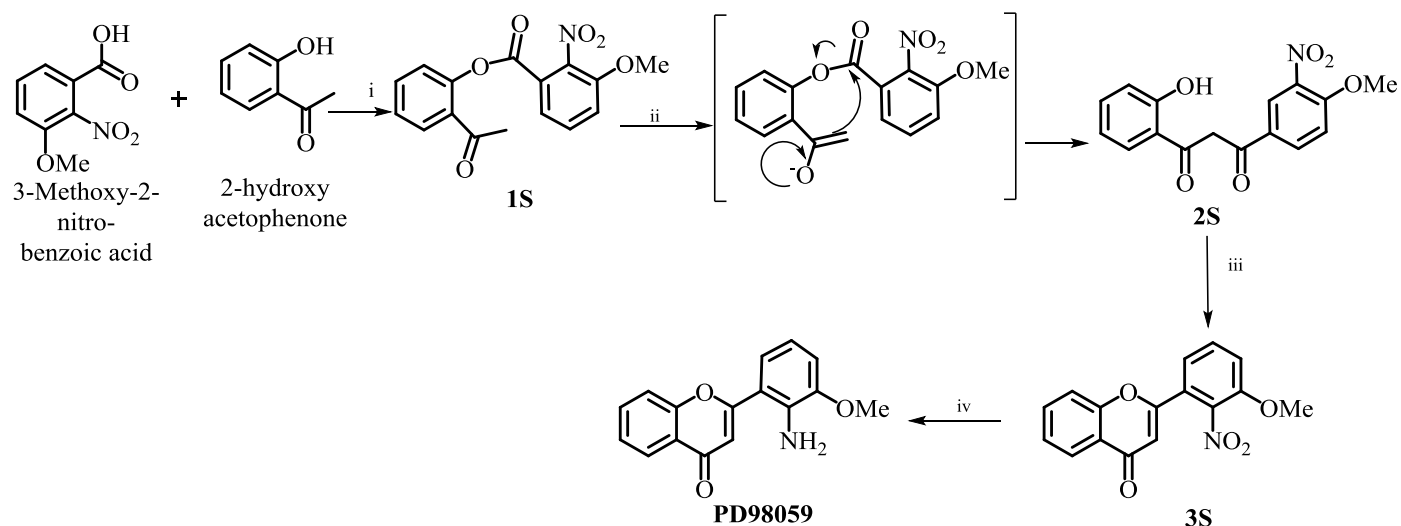
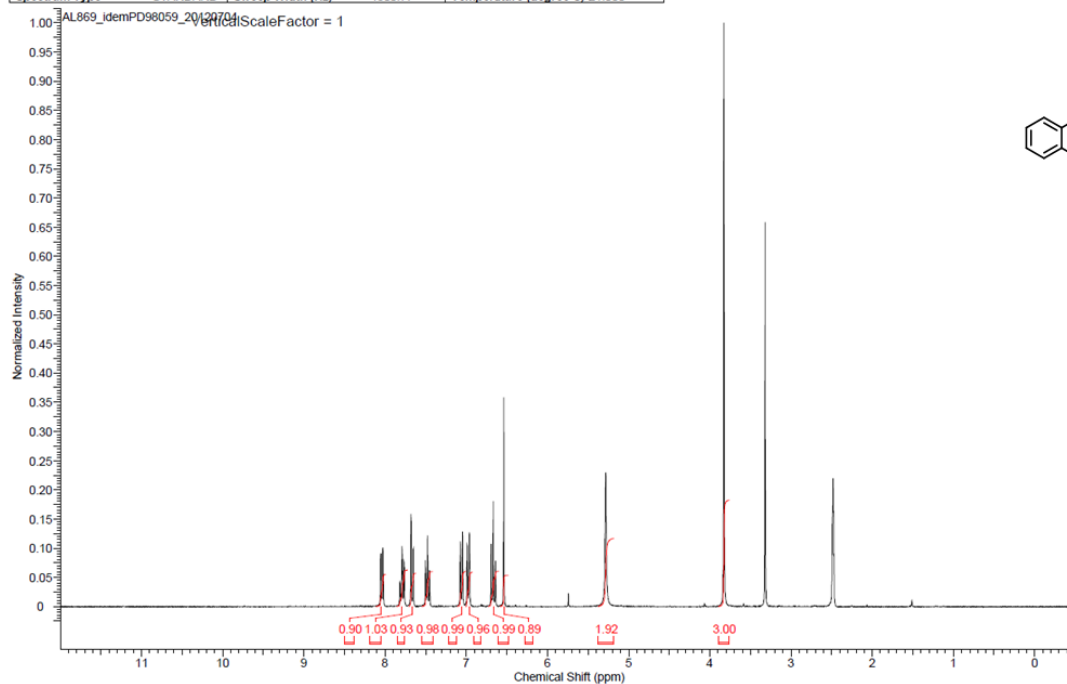


## SUPPORTING INFORMATION



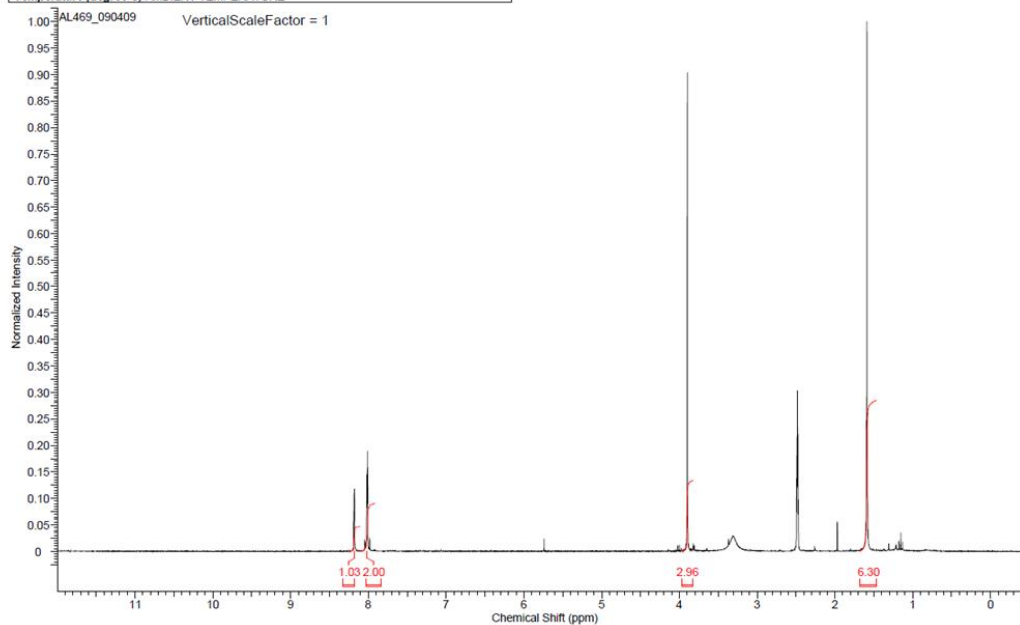
## NMR spectrum of PD98059 - 300MHz

|                |                |                      |         |                        |                     |                      |           |
|----------------|----------------|----------------------|---------|------------------------|---------------------|----------------------|-----------|
| Nucleus        | <sup>1</sup> H | Number of Transients | 48      | Original Points Count  | 14393               | Points Count         | 16384     |
| Pulse Sequence | s2pul          | Receiver Gain        | 30.00   | Solvent                | DMSO-d <sub>6</sub> | Spectrum Offset (Hz) | 1800.3348 |
| Spectrum Type  | STANDARD       | Sweep Width (Hz)     | 4800.77 | Temperature (degree C) | 21.000              |                      |           |



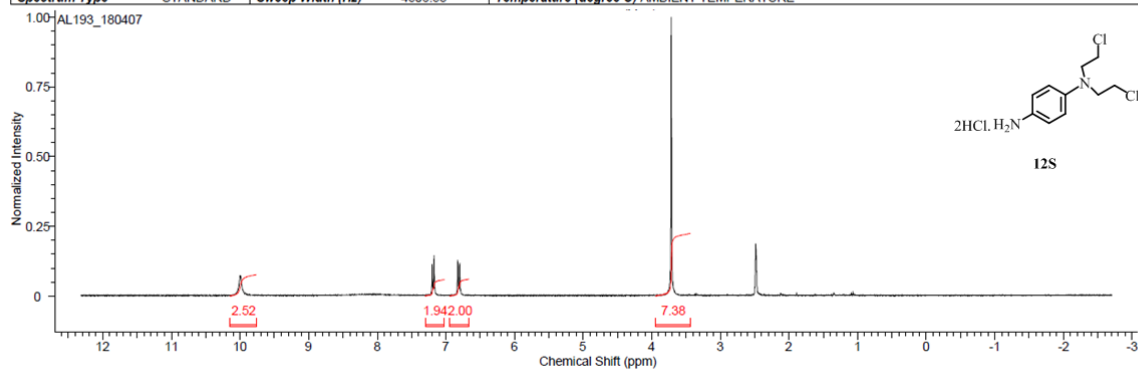
## NMR spectrum of compound 7S - 300MHz

|                                            |           |                |                |                      |         |                       |                     |
|--------------------------------------------|-----------|----------------|----------------|----------------------|---------|-----------------------|---------------------|
| Frequency (MHz)                            | 300.06    | Nucleus        | <sup>1</sup> H | Number of Transients | 32      | Original Points Count | 9004                |
| Points Count                               | 16384     | Pulse Sequence | s2pul          | Receiver Gain        | 39.00   | Solvent               | DMSO-d <sub>6</sub> |
| Spectrum Offset (Hz)                       | 1442.5859 | Spectrum Type  | STANDARD       | Sweep Width (Hz)     | 4506.53 |                       |                     |
| Temperature (degree C) AMBIENT TEMPERATURE |           |                |                |                      |         |                       |                     |



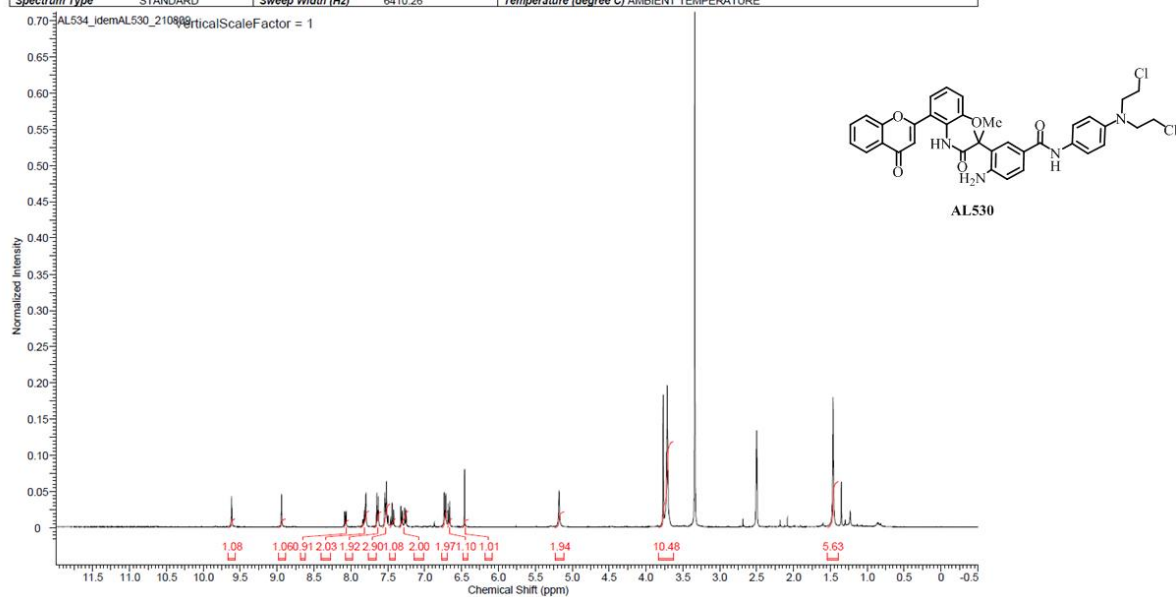
## NMR spectrum of compound **12S** - 300MHz

|                |                |                      |         |                        |                     |                      |           |
|----------------|----------------|----------------------|---------|------------------------|---------------------|----------------------|-----------|
| Nucleus        | <sup>1</sup> H | Number of Transients | 16      | Original Points Count  | 8992                | Points Count         | 16384     |
| Pulse Sequence | s2pul          | Receiver Gain        | 32.00   | Solvent                | DMSO-d6             | Spectrum Offset (Hz) | 1442.5859 |
| Spectrum Type  | STANDARD       | Sweep Width (Hz)     | 4506.53 | Temperature (degree C) | AMBIENT TEMPERATURE |                      |           |

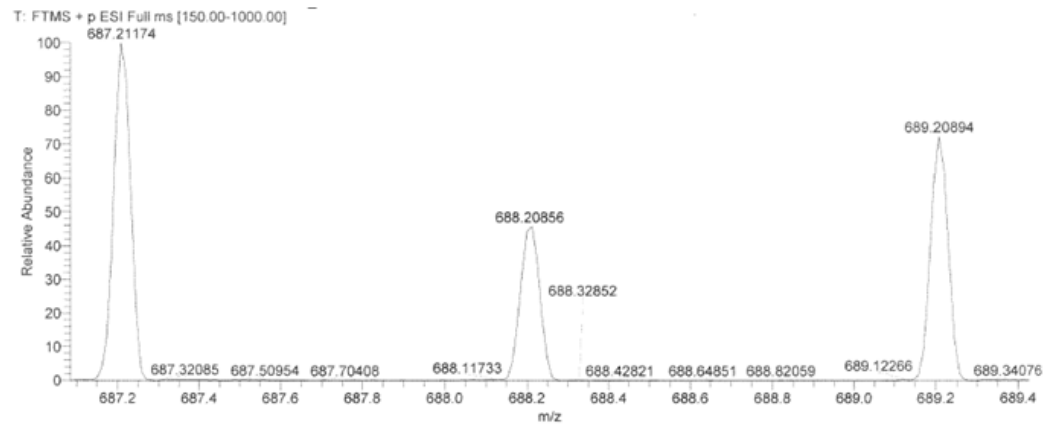
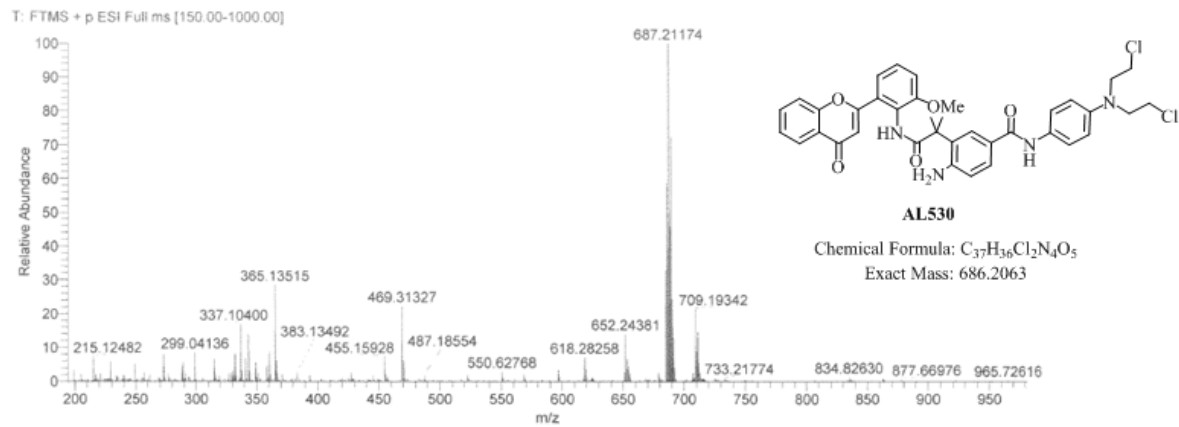


## NMR spectrum **AL530**- 400MHz

|                       |          |                  |                |                        |                     |
|-----------------------|----------|------------------|----------------|------------------------|---------------------|
| Frequency (MHz)       | 400.13   | Nucleus          | <sup>1</sup> H | Number of Transients   | 48                  |
| Original Points Count | 12788    | Points Count     | 16384          | Pulse Sequence         | s2pul               |
| Receiver Gain         | 16.00    | Solvent          | DMSO-d6        | Spectrum Offset (Hz)   | 2407.5356           |
| Spectrum Type         | STANDARD | Sweep Width (Hz) | 6410.26        | Temperature (degree C) | AMBIENT TEMPERATURE |



High Resolution Mass Spectrometry (HRMS) spectrum of **AL530** - Positive Mode



T: FTMS + p ESI Full ms [150.00-1000.00]  
m/z= 687.15629-687.27405

| m/z       | Intensity | Relative | Resolution | Charge | Theo. Mass | Delta (ppm) | RDB equiv. | Composition                                                                   |
|-----------|-----------|----------|------------|--------|------------|-------------|------------|-------------------------------------------------------------------------------|
| 687.21174 | 287191.2  | 100.00   | 15039.25   | 1.00   | 687.21355  | -1.81       | 20.5       | C <sub>37</sub> H <sub>37</sub> O <sub>5</sub> N <sub>4</sub> Cl <sub>2</sub> |
|           |           |          |            |        | 687.20902  | 2.72        | 29.0       | C <sub>46</sub> H <sub>35</sub> ONCl <sub>2</sub>                             |
|           |           |          |            |        | 687.20853  | 3.20        | 33.5       | C <sub>49</sub> H <sub>32</sub> O <sub>2</sub> Cl                             |
|           |           |          |            |        | 687.21526  | -3.52       | 34.0       | C <sub>46</sub> H <sub>29</sub> O <sub>4</sub> N <sub>3</sub>                 |
|           |           |          |            |        | 687.21575  | -4.01       | 29.5       | C <sub>43</sub> H <sub>32</sub> O <sub>3</sub> N <sub>4</sub> Cl              |