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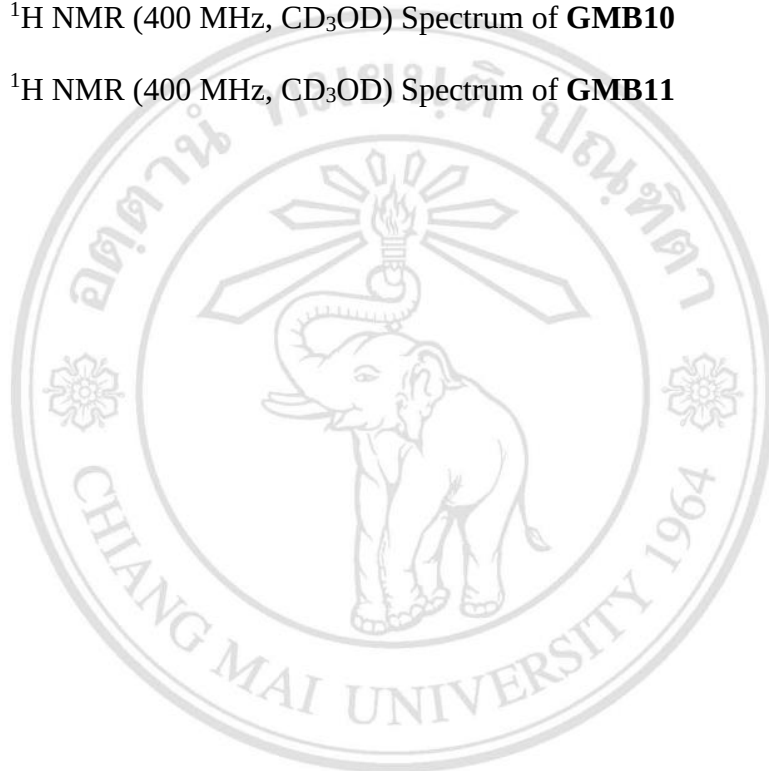
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## LIST OF ABBREVIATIONS

|                |                                                         |
|----------------|---------------------------------------------------------|
| CC             | Column Chromatography                                   |
| QCC            | Quick Column Chromotography                             |
| TLC            | Thin Layer Chromatography                               |
| Acetone- $d_6$ | Deuteroacetone                                          |
| $CDCl_3$       | Deuteriochloroform                                      |
| $CH_2Cl_2$     | Dichloromethane                                         |
| EtOAc          | Ethyl Acetate                                           |
| $CH_3OH$       | Methanol                                                |
| $CD_3OD$       | Deuteromethanol                                         |
| TMS            | Tetramethylsilane                                       |
| mg             | Milligram ( $10^{-3}$ g)                                |
| mL             | Milliliter ( $10^{-3}$ L)                               |
| $\mu g$        | Microgram ( $10^{-6}$ g)                                |
| $\mu M$        | Micromolar                                              |
| mp             | Melting Point                                           |
| MHz            | Megahertz                                               |
| ppm            | Part Per Million                                        |
| UV             | Ultraviolet                                             |
| IR             | Infrared                                                |
| NMR            | Nuclear Magnetic Resonance Spectroscopy                 |
| 2D NMR         | Two Dimentional Nuclear Magnetic Resonance Spectroscopy |

## LIST OF ABBREVIATIONS (Continued)

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| COSY                  | Correlation Spectroscopy                                  |
| NOESY                 | Nuclear Overhauser Effect Spectroscopy                    |
| DEPT                  | Distortionless Enhancement by Polarization Transfer       |
| HMQC                  | Heteronuclear Multiple Quantum Coherence                  |
| HMBC                  | Heteronuclear Multiple Bond Correlation                   |
| HR-ESI-MS             | High Resolution Electrospray Ionization Mass Spectroscopy |
| HR-TOF-MS             | Electrospray Ionization Time-of-Fight Mass Spectroscopy   |
| IC <sub>50</sub>      | Half Maximal Inhibitory Concentration                     |
| MIC                   | Minimal Inhibition Concentration                          |
| AChE                  | Acetylcholinesterase                                      |
| BChE                  | Butyrylcholinesterase                                     |
| <i>B. cereus</i>      | <i>Bacillus cereus</i>                                    |
| <i>B. subtilis</i>    | <i>Bacillus subtilis</i>                                  |
| <i>M. luteus</i>      | <i>Micrococcus luteus</i>                                 |
| <i>S. aureus</i>      | <i>Staphylococcus aureus</i>                              |
| <i>E. coli</i>        | <i>Escherichia coli</i>                                   |
| <i>P. aeruginosa</i>  | <i>Pseudomonas aeruginosa</i>                             |
| <i>S. typhimurium</i> | <i>Salmonella typhimurium</i>                             |
| <i>S. epidermis</i>   | <i>Staphylococcus epidermis</i>                           |
| KB                    | Oral Cavity Cancer Cell                                   |
| HeLa                  | Human Cervical Carcinoma                                  |

## LIST OF ABBREVIATIONS (Continued)

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| MCF-7               | Breast Cancer Cell                                      |
| H-460               | Lung Cancer Cell                                        |
| A549                | Lung Adenocarcinomic                                    |
| PANC-1              | Pancreatic Carcinoma                                    |
| HL-7702             | Normal Human Liver                                      |
| ATCC 43504          | <i>Helicobacter pylori</i> ATCC 43504                   |
| DMST 20165          | <i>Helicobacter pylori</i> DMST 20165                   |
| HP40                | <i>Helicobacter pylori</i> HP40                         |
| HCT116              | Colon Carcinoma                                         |
| MDA-MB-231          | Breast Adenocarcinoma                                   |
| DPPH                | 2,2-Diphenylpicrylhydrazyl                              |
| ABST                | 2,2'-Azino-bis (3-ethylbenzthiazoline-6-sulphonic acid) |
| <i>A. fumigatus</i> | <i>Aspergillus fumigatus</i>                            |
| <i>C. violaceum</i> | <i>Chromobactrium violaceum</i>                         |
| CNE1                | Nanopharyngeal Carcinoma Cell Line                      |
| CNE2                | Nanopharyngeal Carcinoma Cell Line                      |
| SUNE1               | Nanopharyngeal Carcinoma Cell Line                      |
| NCI-H460            | Human Lung Cancer                                       |
| MRSA                | Methicillin-resistant <i>Staphylococcus aureus</i>      |
| NALM-6              | B-cell Precursor Leukemia                               |

## LIST OF SYMBOLS

|                    |                                     |
|--------------------|-------------------------------------|
| $s$                | <i>Singlet</i>                      |
| $d$                | <i>Doublet</i>                      |
| $dd$               | <i>Doublet of Doublet</i>           |
| $t$                | <i>Triplet</i>                      |
| $br\ s$            | <i>Broad Singlet</i>                |
| $br\ d$            | <i>Broad Doublet</i>                |
| $m$                | <i>Multiplet</i>                    |
| $\delta$           | Chemical Shift Relative to TMS      |
| $J$                | Coupling Constant                   |
| $[\alpha]_D$       | Specific Rotation                   |
| $\lambda_{max}$    | Maximum Wavelength                  |
| $\nu$              | Absorption Frequency                |
| $m/z$              | Value of Mass Divided by Charge     |
| $^{\circ}\text{C}$ | Degree Celsius                      |
| $c$                | Concentration                       |
| $\text{cm}^{-1}$   | Reciprocal Centimeter (Wave Number) |