

The naphthalene dioxygenase (NDO) from *Pseudomonas* sp. Strain NCIB 9816-4 is a multicomponent enzyme system that carries out the initial step in the degradation of naphthalene. This enzyme has a broad substrate range and catalyzes several types of reactions including cis-hydroxylation, monooxygenation, and desaturation. In this study 1-phenylpyrazole and 1-phenylpyrrole were tested for biotransformation by NDO. HPLC analysis showed two metabolites from each substrate were produced by NDO. LC/MS analysis indicated the molecular weight of metabolites M1 and M2 of 1-phenylpyrazole were increased by 16 and 34 respectively which could be assumed as monooxygenation and dioxygenation reaction. On the other hand, HPLC and LC/MS analyses of metabolites M1 and M2 from 1-phenylpyrrole showed increased molecular weight of 16 and 32, as compared to the parent compounds, proposing addition of one and two atoms of oxygen to substrate, respectively. The structures of the metabolites were confirmed by <sup>1</sup>HNMR and <sup>13</sup>CNMR analysis.

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**Biotransformation of N-Heterocyclic Compounds 1-Phenylpyrazole** Naphthalene dioxygenase (NDO) from *Pseudomonas* sp. strain NCIB 9816-4 1-Phenylpyrazole and 1-phenylpyrrole were tested for biotransformation by NDO. **Biotransformation of 1-Phenylpyrazole and 1-Phenylpyrrole by NDO** Biotransformation of 1-Phenylpyrazole and 1-Phenylpyrrole by NDO: Naphthalene Dioxygenase. Description. About the Author Nawl Thawng obtained **Biotransformation Of 1 Phenylpyrazole And 1 Phenylpyrrole By Ndo** The naphthalene dioxygenase (NDO) from *Pseudomonas* sp. In this study 1-phenylpyrazole and 1-phenylpyrrole were tested for biotransformation by NDO. **Biotransformation of 1-Phenylpyrazole and 1-Phenylpyrrole by NDO** buy biotransformation of 1-phenylpyrazole and 1-phenylpyrrole by ndo: naphthalene dioxygenase on amazon free shipping on qualified orders. **Biotransformation Of 1 Phenylpyrazole And 1 Phenylpyrrole By Ndo** Biotransformation of 1-Phenylpyrazole and 1-Phenylpyrrole by NDO, 978-3-8465-2640-8, The naphthalene dioxygenase (NDO) from **Biotransformation of n-heterocyclic compounds 1-phenylpyrazole** Biotransformation of N-Heterocyclic Compounds 1-Phenylpyrazole Read more about compounds, metabolites, strain, metabolite, biotransformation and **Biotransformation of N-Heterocyclic Compounds 1-Phenylpyrazole** Buy Biotransformation of 1-Phenylpyrazole and 1-Phenylpyrrole by NDO: Naphthalene Dioxygenase on ? FREE SHIPPING on qualified orders. **Biotransformation of 1-Phenylpyrazole and 1-Phenylpyrrole by Ndo** Naphthalene dioxygenase (NDO) from *Pseudomonas* sp. strain NCIB 9816-4 is a 1-Phenylpyrrole by *Escherichia coli* (pDTG141) Expressing Naphthalene. **Biotransformation of 1-Phenylpyrazole and 1-Phenylpyrrole by Ndo** Naphthalene dioxygenase (NDO) from *Pseudomonas* sp. strain NCIB 1-Phenylpyrazole and 1-phenylpyrrole were tested for biotransformation by NDO. **Biotransformation of n-heterocyclic compounds 1-phenylpyrazole** 1-Phenylpyrrole by *Escherichia coli* (pDTG141) Expressing Naphthalene Key words: biotransformation, naphthalene dioxygenase, 1-phenylpyrazole, 1-phenylpyrrole, aromatic compounds by naphthalene dioxygenase (NDO). **Biotransformation Of 1 Phenylpyrazole And 1 Phenylpyrrole By**

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