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(54) Title: THIENOPYRIDINONE COMPOUNDS AND METHODS OF TREATMENT

(57) Abstract: The invention relates to 5-HT receptor agonists and partial agonists. Novel thienopyridinone compounds represented by Formula I, and synthesis and uses thereof for treating diseases mediated directly or indirectly by 5-HT receptors, are disclosed. Such conditions include Alzheimer's disease, cognition disorders, irritable bowel syndrome, nausea, emesis, vomiting, prokinesia, gastroesophageal reflux disease, nonulcer dyspepsia, depression, anxiety, urinary incontinence, migraine, arrhythmia, atrial fibrillation, ischemic stroke, gastritis, gastric emptying disorders, feeding disorders, gastrointestinal disorders, constipation, erectile dysfunction, and respiratory depression. Methods of preparation and novel intermediates and pharmaceutical salts thereof are also included.

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