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(57) Abstract :

The present invention relates to a sustained-release pharmaceutical composition comprising vortioxetine and L-theanine for the treatment of major depressive disorder and associated cognitive dysfunction. The composition is formulated to provide controlled release of both active agents over an extended period, typically ranging from 8 to 24 hours, thereby maintaining stable plasma concentrations and enhancing therapeutic efficacy. Vortioxetine serves as an antidepressant with multimodal serotonergic activity, while L-theanine contributes anxiolytic and cognitive-enhancing effects. The composition may be presented as a tablet, capsule, or multiparticulate system using release-modifying polymers to achieve sustained delivery. The invention addresses the unmet clinical need for a single dosage form that simultaneously improves mood and cognitive function in individuals suffering from depression

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