Buspirone is a partial 5-HT1A serotonin receptor agonist. It also has dopaminergic, noradrenergic, and serotonin-modulating properties. Buspirone mitigates the electrically stimulated flow of 5-hydroxytryptamine from rat cortical slices.\(^1\) Buspirone and other anxiolytic compounds have been utilized in a study of stress induced hyperthermia in singly housed mice.\(^2\) Buspirone has also been used to mitigate respiratory abnormalities in spinal cord-injured rats via the stimulation of serotonin 1A receptors.\(^3\)

A liquid chromatography method for the analysis of buspirone has been described in the literature.\(^4\)

**Preparation/Solubility:**
Buspirone is soluble in methanol at approximately 50 mg/ml yielding clear colorless solutions. Heating may be necessary. It is reported to be soluble at 10 mg/ml in water.

**Storage:** Store at 2-8\(^\circ\) and protect from moisture.

**References:**

This product is offered for R&D use only. Not for human, medical, veterinary, food or household use.