**Laboratory Procedures**

For long term storage, we suggest that HU-331 be stored as supplied at -20°C. It should be stable for at least one year. HU-331 is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of HU-331 in these solvents is at least 20 mg/ml.

HU-331 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of HU-331 should be diluted with the aqueous buffer of choice. HU-331 has a solubility of 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The endocannabinoids present a rich system of central cannabinoid (CB₁), peripheral cannabinoid (CB₂), and non-CB receptor-mediated pharmacology that has stimulated research in many fields including memory, weight loss and appetite, neurodegeneration, tumor surveillance, analgesia, and inflammation.¹,² HU-331 is a hydroxyquinone cannabinoid analog that exhibits potent antineoplastic activity on a variety of human cancer cell lines.³ It effectively inhibits the growth of human Raji and Jurkat lymphoma cells in vitro with an EC₅₀ of approximately 0.2 µg/ml and an EC₈₀ of 1.56 µg/ml. HU-331 also inhibits the growth of HT-29 colon carcinoma cells, which have been inoculated into nude mice, by more than 50% at a dose of 5 mg/kg.³

**References**


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