

# Novel Cannabinergic Nitrate Esters and Related Analogs

INV-1247

**Inventors:** Alexandros Makriyannis, Venkata Kiran Vemuri

## Description

In prior art, various attempts have been made to explore and understand the medicinal effects of marijuana unrelated to its psychoactive properties. As a result, various cannabinoid compounds have been identified and experimented till date. However, identification of cannabinoid compounds with nitrate ester groups have never been reported or studied. **This approach discloses development and use of such novel compounds for various therapeutic/research applications.**

## Value Proposition

The cannabinergic nitrate esters:

- Exhibit a dual functional behavior
- Are good nitric oxide donors
- Have improved physiochemical properties
- Are capable of covalently binding to receptors in a unique manner
- Have a predictable onset and duration of action as compared to conventional compounds
- Possess exceptional and distinct in-vivo and in-vitro pharmacological properties
- Are capable of acting as agonists, partial agonists, neutral antagonists or inverse agonists for various receptors

## Intellectual Property Status

Provisional Application 61/769,410

## License Status

Available for license