

Water Soluble Modified Mitochondria Division Inhibitor 1

Published date: Sept. 17, 2018

Technology description

Mitochondrial diseases are broad, they range from metabolic disorders to Huntington's diseases, Alzheimer's diseases, Parkinson's disease and schizophrenia. It is known that excessive mitochondrial division can contribute to apoptosis and therefore mitochondrial division inhibitors are an attractive therapeutic.

Mitochondrial division inhibitor 1 (Mdivi-1) is known to inhibit mitochondrial division by blocking dynamin GTPase activity. Mdivi-1 is only soluble in dimethyl sulfoxide, this limits its use in animals and humans.

This technology is a modified Mdivi-1 that is soluble in water. The modified Mdivi-1 can be useful in clinical applications of mitochondrial human diseases. In addition, the modified Mdivi-1 enhances antioxidant/anti-inflammatory properties.

Keywords:

Water soluble mdivi-1, mitochondrial ageing disorders, mitochondrial division inhibitor, antioxidant/anti-inflammatory mdivi-1.

Application area

Pharmaceutical

Mitochondrial ageing disorders

Anti-inflammatory properties

Advantages

Water soluble mdivi-1

Phenolic group containing mdivi-1

Institution

[Texas Tech University](#)

Inventors

[CHANDRA SEKHAR KURUVA](#)

Postdoctoral Research Associate

[P. Hemachandra Reddy](#)

Executive Director and Professor

联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com