

# Serratiopeptidase - A Wonder Enzyme

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The pain management and devices used for pain management and inflammation management market has crossed a worldwide level of \$42 billion and by 2023 it is estimated to cross the landmark of \$ 72 billion market size. Various medications and treatments are being considered in order to treat the pain and in the management of the pain world over. However, a breakthrough medicine and treatment is still awaited in the medical science. One such lead medicine which can become a breakthrough treatment option for pain and inflammation management is the enzyme and drug serratiopeptidase. Serratiopeptidase is a proteolytic enzyme extracted from species, *Bombyx mori*. The present letter is an effort to draw attention of scientists and researchers towards this wonder pain relief enzyme, serratiopeptidase.

Serratiopeptidase is a proteolytic enzyme which has been used since few decades in Japan and Europe for the management of pain and inflammation. The first scientific research on this enzyme has been reported in Japan in the year 1960's. However, till now effective clinical trial and clinical evidence are lacking which would support the nature of serratiopeptidase as a wonder enzyme for pain and inflammation management.

The enzyme is isolated from the intestine of a silkworm of species *Bombyxmori*. The silkworm uses this enzyme to dissolve the cocoon which is surrounded around the silkworm, so that it can come out and grow and move on.

It's an accidental discovery in the Japan and Europe which evidences the breakthrough results in pain management and significance of serratiopeptidase as a lead molecule for pain relief and inflammation relief.

For this the author tried and searched different databases across the internet, to search for some solid scientific evidence which would support the authors concern, and make sure that serratiopeptidase is actually a wonder enzyme which can be widely accepted and used as the most important lead molecule for pain relief.

The database such as Pubmed, Science direct, Embase and Google scholar, were used to find out concrete evidence.

However, during the research there was no concrete evidence which would support the aim of the author and his research interest.

It's a recommendation of the author to the respected scientific body across the world, to initiate and consider serratiopeptidase as a lead molecule for treatment of pain and inflammation.

Taking the concept of inflammation and pain, it results due to accumulation of modulators at the injury site. Since, the enzyme serratiopeptidase is used by the silkworm to

dissolve the cocoon, similarly this enzyme can be used to dissolve the unwanted inflammation and relieve the pain at the site of injury for the benefit of giving relief to the concerned patient in the clinical practice.

If not for pain relief and inflammation management, the enzyme can very well be used as blood thinner and as an agent to dissolve the clot in arteries and veins and can be of huge help in cardio-therapy. This way we can prevent the damage caused by clots to the other parts of the body.

There is however, lot of indications, where the application of Serratiopeptidase can be used in the clinical practice and management of various diseases.<sup>[1]</sup>

No, wonder, serratiopeptidase is indeed a wonder enzyme for the medical world.

## REFERENCES

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