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Evaluation of Anti-inflammatory activity of enriched Boswellia extract in Human Dermal Fibroblast Cells In-vitro.

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Abstract

The enriched Boswellia extract (Olibose®) and Regular Boswellic acid extract (RBAE) prepared from the resin of Boswellia serrata were evaluated for anti-inflammatory activity in Human Dermal Fibroblasts (HDF) Cells In-vitro. Anti-inflammatory activity was determined by inducing inflammation on HDF and L929 cell lines. After the induction of inflammation, cells were treated with Olibose®, RBAE extracts and standard inflammatory drug Dexamethasone. Levels of Inflammatory markers i.e., TNF- α and NO (Nitric oxide) were measured and anti-inflammatory efficacy was assessed. Results of the present study revealed that, the enriched extract (Olibose®) possess better anti-inflammatory activity in comparison with RBAE. In this study, Olibose® exhibited dose dependant anti-inflammatory activity against LPS induced induction of TNF- α and NO in HDF cells. Olibose® was found to have better anti-inflammatory activity than RBAE in vitro. Since arthiritis/osteoarthiritis are associated with inflammation, this study proves that Olibose® can be used to reduced above said complications.

Biograph:

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