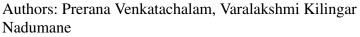
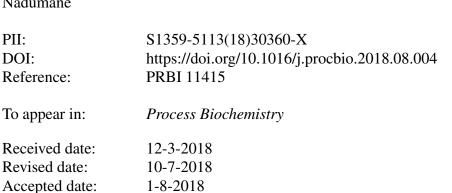
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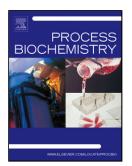
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ACCEPTED MANUSCRIPT

Overexpression of p53 and Bax mediating apoptosis in cancer cell lines

induced by a bioactive compound from *Bacillus endophyticus* JUPR15

Prerana Venkatachalam^{a,*}, Varalakshmi Kilingar Nadumane^a

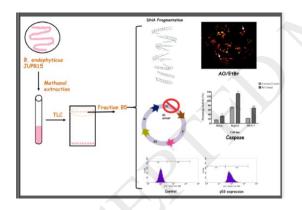
^a Department of Biotechnology, School of Sciences, Jain University, 18/3, 9th Main, 3rd

Block, Jayanagar, Bengaluru, India - 560 011

Email id*: prerana1212@gmail.com

Tel no.08043226500

Graphical abstract



Highlights

- 1st report of a compound from *Bacillus endophyticus* with anticancer activity.
- Anti-proliferative effects leading to G1 phase arrest and decreased S phase cells.
- Higher caspase activity inducing the apoptosis in cancer cell lines.
- Upregulation of p53 and Bax, downregulation Bcl-2 expressions mediating apoptosis.

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