

Supplementary Data

Assessment of Pharmacological Potential of Novel Exopolysaccharide Isolated from Marine *Kocuria* sp. Strain AG5: Broad-Spectrum Biological Investigations

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Table S1. Physiological Characteristics of *Kocuria* Sp. strain AG5.

Physiological characteristics	<i>Kocuria</i> sp. strain AG5
Catalase	+
Citrate	+
Coagulase	-
Indol	-
MR(Methylred)	-
VP(Voges Proskauer)	+
Oxidase	-
Urease	+
Nitrate reduction	-
Glucose	+
Lactose	-
Sucrose	+
Mannose	+

Table S2. Culture and Morphological Characteristics of *Kocuria* sp. strain

<i>Kocuria</i> sp. strain	Shape and Culture Characteristics
AG5	Gram positive cocci, Large, Yellow, Rough, Dry, Convex, short chains, non-capsulated, non-spore-forming, non-motile, non-acid fast and non-hemolytic colonies on blood agar

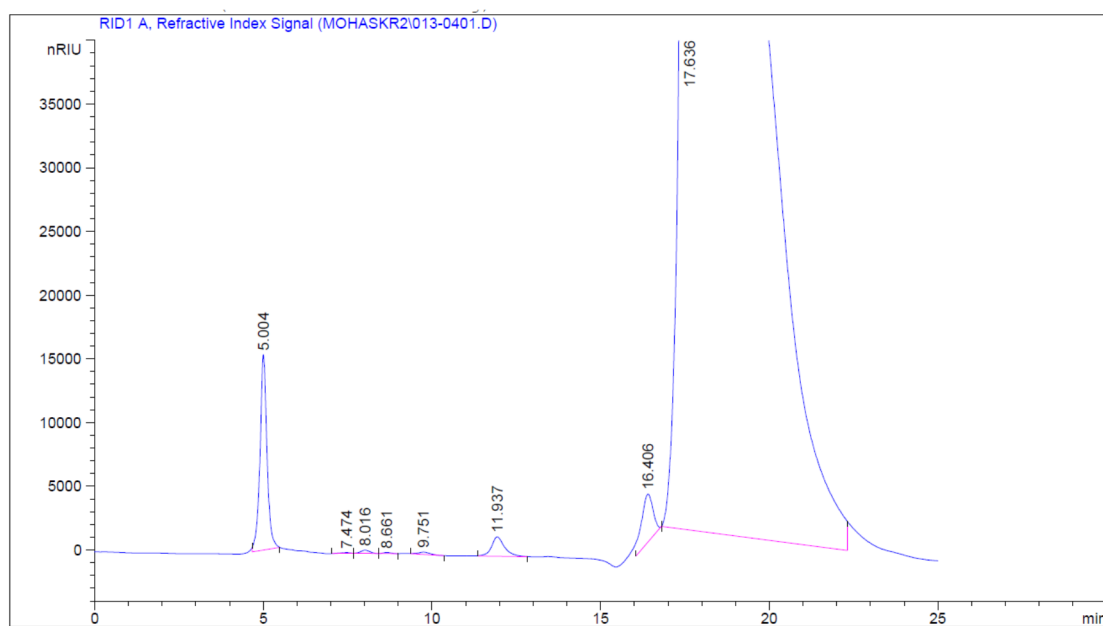


Figure S1. HPLC analysis of the EPSR5.

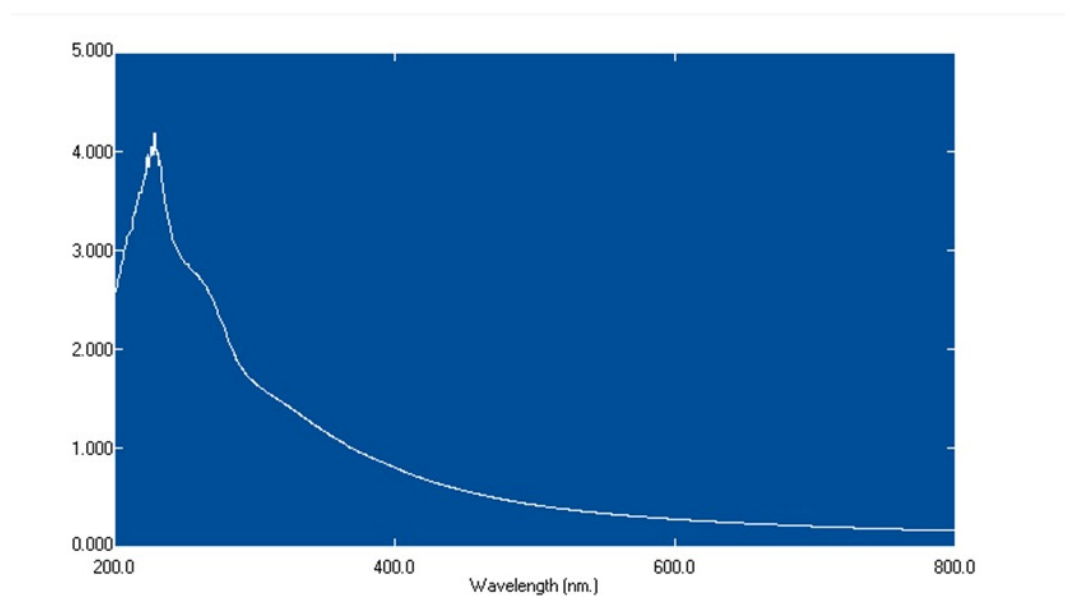


Figure S2. U.V Spectrum of EPSR5 isolated from *Kocuria Sp.* strain AG5.

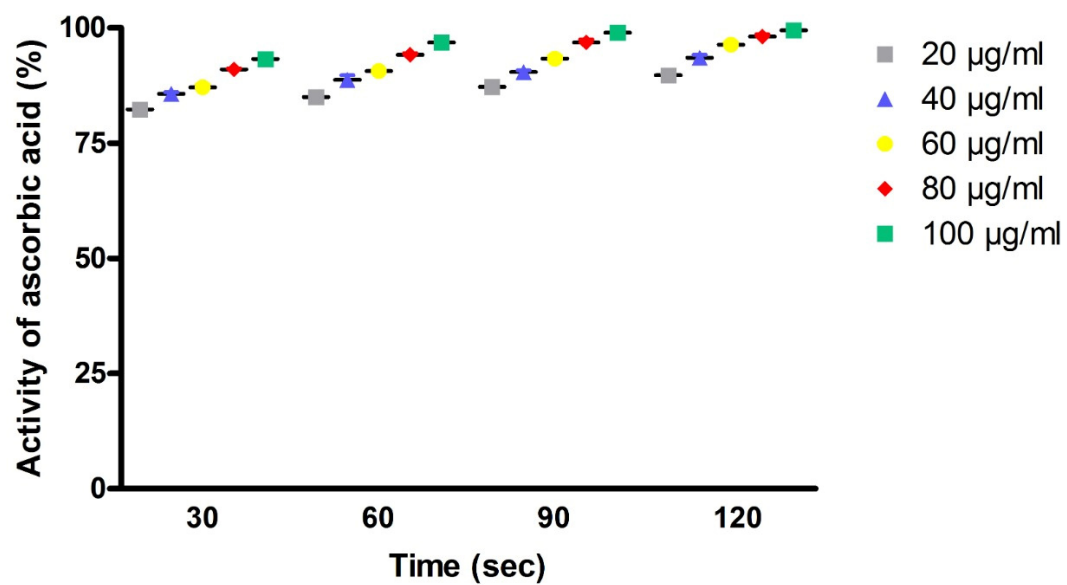


Figure S3. The activity of ascorbic acid to scavenge the free radical of DPPH at different time intervals.

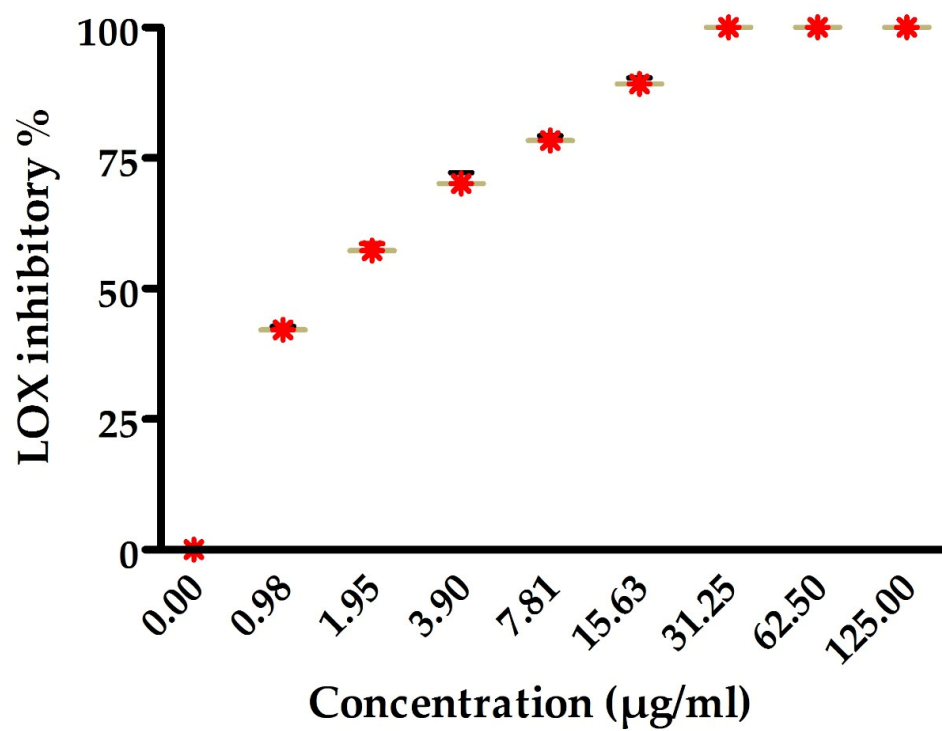


Figure S4. The inhibitory activity of ibuprofen against 5-LOX enzymatic activity.

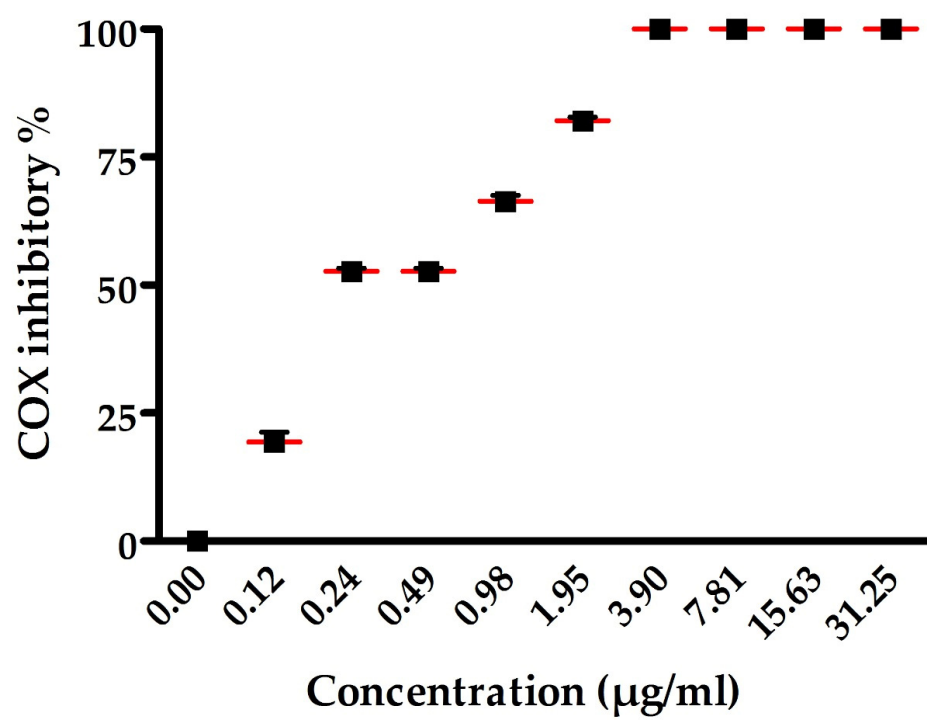


Figure S5. The inhibitory activity of celecoxib against COX-2 enzymatic activity.

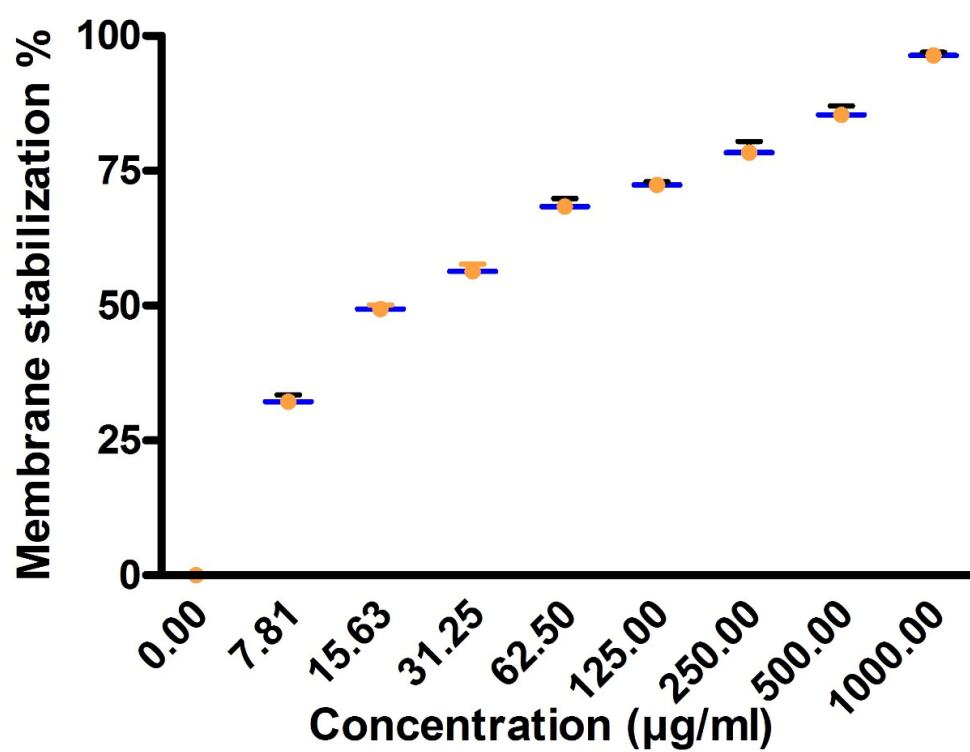


Figure S6. The inhibitory activity of indomethacin against hemolysis activity (membrane stability).

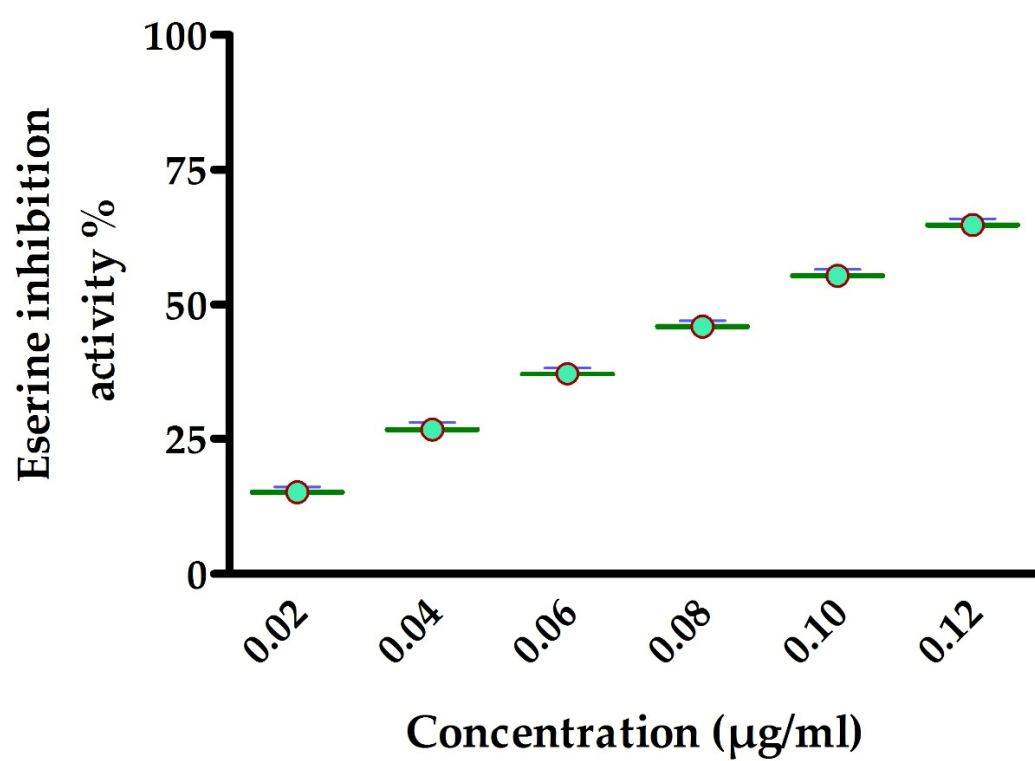


Figure S7. The inhibitory activity of Eserine against acetylcholinesterase activity.