

## Antiplatelet Activity of *Curcuma longa* L. Rhizome-Isolated *ar*-Turmerone

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The antiplatelet activities of *Curcuma longa* rhizome-derived materials were measured using a platelet aggregometer and compared with those of aspirin as antiplatelet agent. The active constituent from the rhizome of *Curcuma longa* L. was isolated and characterized as *ar*-turmerone by various spectral analyses. At 50% inhibitory concentration (IC<sub>50</sub>) value, *ar*-turmerone was effective in inhibiting platelet aggregation induced by collagen (IC<sub>50</sub>, 14.4 mM) and arachidonic acid (IC<sub>50</sub>, 43.6 μM). However, *ar*-turmerone had no effect on platelet activating factor or thrombin induced platelet aggregation. In comparison, *ar*-turmerone was significantly more potent platelet inhibitor than aspirin against platelet aggregation induced by collagen. These results suggested that *ar*-turmerone could be useful as a lead compound for inhibiting platelet aggregation induced by collagen and arachidonic acid.

### Reference

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