

# **Protective and theraprutic effects of curcuma xanthorrhiza on hepatotoxin-induced liver damage**

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摘要

**Abstract**

*Curcuma xanthorrhiza* Roxb. (Zingiberaceae family, commonly known as temu lawak or Javanese turmeric in Indonesia), which is found both wild and cultivated in Indonesia, has been traditionally used for medicinal purposes. *C. xanthorrhiza* is also used as a tonic in Indonesia. The aim of the present study is to clarify whether *C. xanthorrhiza* treatment may prevent acute liver damage induced by acetaminophen and carbon tetrachloride in mice. The results clearly indicated that extract of *C. xanthorrhiza* could reduce significantly the acute elevation of serum transaminases levels induced by the two kinds of hepatotoxins, and alleviated the degree of liver damage at 24 hours after the intraperitoneal administration of two hepatotoxins. It may be concluded that *C. xanthorrhiza* can protect the liver from various hepatotoxins, hence *C. xanthorrhiza* could be useful in the treatment of liver injuries and has promise as a kind of broad spectrum hepatoprotective agent.