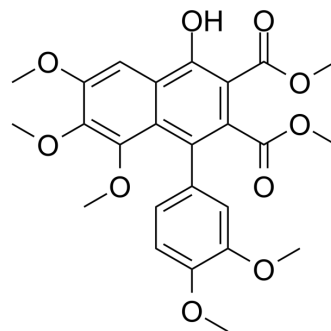


TA-7552

Cat. No.:	HY-100253
CAS No.:	104756-72-1
Molecular Formula:	C ₂₅ H ₂₆ O ₁₀
Molecular Weight:	486.47
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TA-7552 is a potent cholesterol-lowering agent.
In Vivo	TA-7552 is a potent cholesterol-lowering agent. When TA-7552 is mixed with unsupplemented CLEA CE-2 powder in a concentration of 0.05% and administered to rats for 7 days, TA-7552 does not reduce the normal level of serum cholesterol. The hypocholesterolemic effect of TA-7552 is apparent at the lowest concentration (0.01%) of the drug in the diet, corresponding to a daily dose of ~10 mg/kg body weight, and maximal at the highest concentration of 0.2% TA-7552, lowering serum total cholesterol by 72% while elevating serum HDL cholesterol by 88%. TA-7552 also dose dependently suppresses this rise of hepatic cholesterol, and its lowering rate at the maximal dose is 90% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]	Male Sprague-Dawley rats (4 weeks of age) are used in this experiment. In the mechanism study, rats are divided into two or three groups of 4 to 6 animals so that the mean body weight, which varies from 210 g to 330 g, is similar between the groups. The experimental groups are treated with TA-7552 (0.1% in CE-2 powder) or cholestyramine (5% in CE-2 powder) by feeding the diet ad libitum for a period of time; The control groups are fed CE-2 powder. When the feces are collected, the animals are individually housed in a metabolic cage, and the collected feces are lyophilized and stored at -20°C ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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REFERENCES

[1]. Takashima K, et al. The hypocholesterolemic action of TA-7552 and its effects on cholesterol metabolism in the rat. *Atherosclerosis*. 1994 Jun;107(2):247-57.

Caution: Product has not been fully validated for medical applications. For research use only.

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