

# **Raspberry ketone**

Catalog No: tcsc0016855



**Available Sizes** 

#### Size: 100mg

Specifications

#### CAS No:

5471-51-2

#### Formula:

 $C_{10}H_{12}O_{2}$ 

## Pathway:

Cell Cycle/DNA Damage

#### **Target:**

PPAR

#### **Purity / Grade:**

>98%

#### Solubility:

10 mM in DMSO

#### **Alternative Names:**

Frambione;4-(4-Hydroxyphenyl)-2-butanone

#### **Observed Molecular Weight:**

164.2

### **Product Description**

Raspberry ketone is a major aromatic compound of red raspberry, widely used as a fragrance in cosmetics and as a flavoring agent in foodstuff; also shows **PPAR-** $\alpha$  agonistic activity.

IC50 & Target: PPAR-α<sup>[3]</sup>

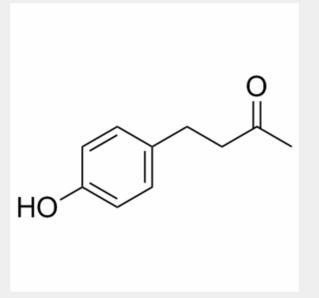
In Vitro:

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Raspberry ketone (1, 10, 20, and 50  $\mu$ M) suppresses adipogenesis and lipid accumulation in 3T3-L1 pre-adipocytes. Raspberry ketone (10  $\mu$ M) significantly blocks C/EBP $\alpha$ , PPAR $\gamma$ , and aP2 expression and increases the expression of ATGL and HSL, and CPT1B<sup>[1]</sup>.

*In Vivo:* Raspberry ketone (0.5%, 1%, or 2%) increasses the levels of total cholesterol (TC), triglycerides (TG), low-density lipoprotein cholesterol contents (LDL-C), ISI (insulin-sensitivr index), PPAR- $\alpha$  and LDLR, decreases the serum levels of AST (aspartate aminotransferase), ALT (alanine aminotransferase), ALP (alkaline phosphatase), IRI (insulin resistance index), GLU (glucose), INS (insulin-sensitivr index), LEP (leptin), and TNF- $\alpha$  in rats compared with a high-fat diet-induced NASH model. Raspberry ketone also causes increased SOD activities<sup>[2]</sup>. Raspberry ketone shows cardioprotective action against isoproterenol-induced myocardial infarction in rats, and the effects may be due to its PPAR- $\alpha$  agonistic activity<sup>[3]</sup>.



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