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# 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-α** agonistic activity.

IC50 & Target: PPAR-α[3]

***In Vitro:***

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Raspberry ketone (1, 10, 20, and 50 μM) suppresses adipogenesis and lipid accumulation in 3T3-L1 pre-adipocytes. Raspberry ketone (10 μM) significantly blocks C/EBPα, PPARγ, and aP2 expression and increases the expression of ATGL and HSL, and CPT1B[1].

***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-α 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-α in rats compared with a high-fat diet-induced NASH model. Raspberry ketone also causes increased SOD activities[2]. Raspberry ketone shows cardioprotective action against isoproterenol-induced myocardial infarction in rats, and the effects may be due to its PPAR-α agonistic activity[3].