

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

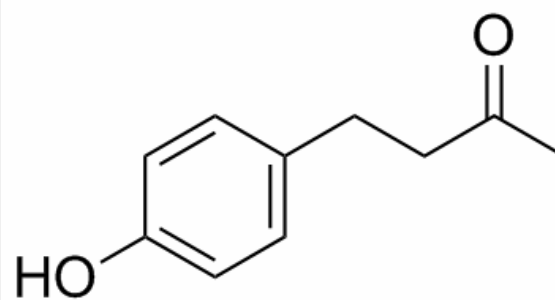
Raspberry ketone is a major aromatic compound of red raspberry, widely used as a fragrance in cosmetics and as a flavoring agent in foodstuff; also shows **PPAR- α** agonistic activity.

IC50 & Target: PPAR- α ^[3]

In Vitro:

Raspberry ketone (1, 10, 20, and 50 μ M) suppresses adipogenesis and lipid accumulation in 3T3-L1 pre-adipocytes. Raspberry ketone (10 μ M) significantly blocks C/EBP α , PPAR γ , and aP2 expression and increases the expression of ATGL and HSL, and CPT1B^[1].

In Vivo: Raspberry ketone (0.5%, 1%, or 2%) increases the levels of total cholesterol (TC), triglycerides (TG), low-density lipoprotein cholesterol contents (LDL-C), ISI (insulin-sensitivity 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-sensitivity 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].



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