PRODUCT CODE- RBK04190

Taj Pharmaceuticals Ltd.

Raspberry Ketone

CAS No. 5471-51-2

04190 RBK11 45452 778

Raspberry Ketone

IUPAC Name:
4-(4-hydroxyphenyl)butan-2-one
Synonyms:
Raspberry ketone, Oxyphenalon, Frambinone, Rheosmin, Rasketone, Betuligenol, rasberry ketone, p-Hydroxybenzyl acetone, 4-(3-Oxobutyl)phenol, 4-(4-Hydroxyphenyl)-2-butanone, Hydroxyphenylbutanone, p-, (p-Hydroxybenzyl)acetone, 2-Butanone, 4-(4-hydroxyphenyl)-, p-hydroxyphenylbutan-2-one, 1-(p-Hydroxyphenyl)-3-butanone, 4-(p-Hydroxyphenyl)-2-butanone, FEMA No. 2588, WLN: QR D2V1, W258806_ALDRICH, W258814_ALDRICH

CAS Registry Number: 5471-51-2

Molecular Formula: C10H12O2
Molecular Weight: 164.201080 [g/mol]
Density 1.362
Water solubility 13 g/L at 25 ºC

Properties :

Appearance : white crystalline powder
Assay : 98.00 to 100.00 %
Food Chemicals Codex Listed : Yes
Melting point : 82.00 to 84.00 °C. @ 760.00 mm Hg
Boiling point : 200.00 °C. @ 760.00 mm Hg
Flash point : > 200.00 °F. TCC (> 93.33 °C.)
LogP (o/w) : 0.94
Shelf life : 24.00 month(s) or longer if stored properly.
Storage : store in cool, dry place in tightly sealed containers, protected from heat and light.

Raspberry ketone is a natural phenolic compound that is the primary aroma compound of red raspberries. It is used in perfumery, in cosmetics, and as a food additive to impart a fruity odor.

In plants, raspberry ketone is synthesized from coumaroyl-CoA.But since the natural abundance of raspberry ketone is very low, it is prepared industrially by a variety of methods from chemical intermediates.When given to mice in high doses (up to 2% of food intake), raspberry ketone has been shown to prevent high-fat-diet-induced elevations in body weight.This effect is reported to stem from the alteration of lipid metabolism, increasing norepinephrine-induced lipolysis. Although products containing this compound are marketed for weight loss, this effect has not been studied in humans.

Raspberry ketone, an aromatic substance in raspberries found to reduce body fat.

Raspberry ketone is an aromatic compound found all red raspberries (Rubus idaeus) which is extensively used in perfumery. It's chemical structure is similar to that of zingerone, a ginger extract which reduced obesity and is analysed elsewhere on this website. It is also similar to that of capsaicin (the chemical that gives hot chili peppers their "burning" quality), to synephrine (a substance found in orange peel and known to help reduce fat and fluid retention) and evodiamine (another fat loss ingredient). All these chemicals, including raspberry ketone interact with fat cells and induce fat loss via similar mechanisms.

"Anti-obese action of raspberry ketone"

In 2004 a group of Japanese researchers examined the anti-obesity action of raspberry ketone in mice. To test the effect on obesity, the researches in one experiment fed mice a high-fat diet including 0.5, 1, or 2% of raspberry ketone for 10 weeks. In another experiment mice were given a high-fat diet for 6 weeks and then fed the same high-fat diet containing 1% of raspberry ketone for the next 5 weeks.

After 11 weeks the results were pretty amazing. Raspberry ketone did indeed prevent the high-fat-diet-induced fat gain in the first experiment, and decreased the fat accumulation produced by 6 weeks of high fat diet in the second experiment. In addition, the raspberry ketone decreased the amounts of fat accumulated in the liver due to the high fat diet, thereby improving fatty liver. The researchers concluded that this obesity preventing and reducing effect was due to the potentiation of the norepinephrine-induced lipolysis (=fat breakdown) in fat cells.

Norepinephrine is produced by the body when we exercise, therefore the best time to consume raspberries or apply a raspberry ketone cream on areas with excess fat, is immediately before and/or after exercise. This is when the raspberry ketone can really perform it’s magic.

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