

Mogroside

Product Information

CAS: 88901-36-4

Odor: Odorless

Molecular formula: C₆₀H₁₀₂O₂₉

Molecular weight: 1287.43

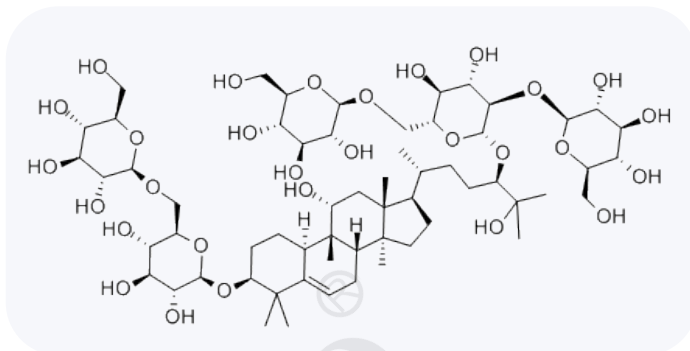
Packaging: 20kg/drum (For more packaging specifications, please feel free to contact us)

Content: 50%

MOL File: 88901-36-4.mol

Color: White to Off-white

Appearance: Almost white powder or light yellow solid



Product Introduction

Mogroside V is a natural sweet compound extracted from *Siraitia grosvenorii*. It is a disaccharide glycoside compound, which is composed of one molecule of betaine and one molecule of cucurbitacin through glycosidic bond. Mogroside V has a very high sweetness, about 250-300 times that of sucrose, but it has no calories. Therefore, it is widely used in food and beverage industry as a natural sweetener. Compared with other synthetic sweeteners, Mogroside V has the advantages of water solubility, good stability, high thermal stability and no dental caries. Mogroside V also has anti-oxidant, anti-diabetic and anti-cancer activities.

In the United States, sweeteners made from monk fruit are classified by the U.S. Food and Drug Administration (FDA) Trusted Source as “generally recognized as safe,” or GRAS.

The FDA “no objections” letter can be viewed at this link:

www.fda.gov/Food/IngredientsPackagingLabeling/GRAS/NoticeInventory/ucm200326.htm

Mogroside V is your perfect choice of natural sweeteners.

We can offer high-quality Mogroside V.

Determination Method

A Reverse Phase High-Performance Liquid Chromatography (RP-HPLC) method has been developed for quantifying the content of Mogroside in Mogroside medicinal materials. Utilizing an Altima-C18 column (4.6mmx250mm, 5 μ m), the mobile phase consists of acetonitrile-water (23:77), with a flow rate of 1.0L·min⁻¹. Detection is performed at a wavelength of 203nm, and the column temperature is maintained at 32°C. The linear range for Mogroside was found to be 0.17~4.2 μ g, with an average recovery rate of 99.05% (RSD 0.78%, n=9). The established method demonstrates stable results and a high recovery rate, rendering it suitable for accurately determining the content of Mogroside in Mogroside medicinal materials.

Specifications of Monk fruit extract

Name	Specification	Sweetness (x Sucrose)	Color
Monk Fruit Extract	80% Mogrosides/25% Mogroside V	160x	Brown Yellow
Monk Fruit Extract	90% Mogrosides /30% Mogroside V	180x	Fine Light yellow
Monk Fruit Extract	40% Mogroside V	220x	Fine Light yellow to milky white
Monk Fruit Extract	50% Mogroside V	280x	Milky White
Monk Fruit Extract	55% Mogroside V	300x	Milky White
Monk Fruit Extract	60% Mogroside V	330x	Mikly White



Applications

1. Beverages: Beer, Wines, Carbonated Soft Drinks, Energy Drinks, Iced Tea, Iced Coffee, Sport Drinks, Isotonic Drinks, Powder Soft Drinks
2. Baked Goods: Breads, Cakes, Cookies, Brownies, Pies
3. Condiments / Sauces: Ketchup, Mustard, Mayonnaise, Pickles, Steak Sauces
4. Confections: Hard and Soft Candies, Chewing Gums, Chocolates, Chocolate Powders, Cereal Bars
5. Dairy Products: Tabletop Sweeteners, Yoghurts, Ice Creams
6. Personal Care: Cosmetics, Lipsticks, Mouth Washes, Toothpaste, Cough Syrup, Dietary Supplements, Protein Drinks, Replacement Meal Drinks, Vitamin bars
7. Mogroside finds wide application in various products, including nutritional health supplements, infant food, puffed snacks, seasonings, products targeted at middle-aged and elderly consumers, solid beverages, pastries, cold dishes, convenience foods, and instant meals, among others.



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