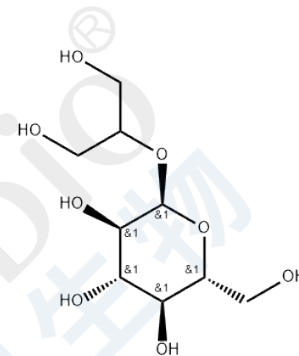


Glucosylglycerol

Product Information

- **Product Name:** Glucosylglycerol
Alternative name: GLYCERYL GLUCOSIDE; Glycoin; Extremys GG; Skycore AGG; glycosylglycerol; glucosylglycerol; Glycerin Glucoside; Glucosylglycerol; Glucosylglycerol
- **Technological Process:** Biosynthesis
- **CAS No:** 22160-26-5
- **Appearance:** Colorless transparent liquid
- **α -GG content:** 70%
- **2- α -GG content:** 55%
- **Glycerol content:** $\leq 1\%$
- **PH:** 5-7
- **Mol. Formula:** C₉H₁₈O₈
- **Mol. Weight:** 254.23
- **Packaging:** 1kg
- **Storage:** Keep away from direct light and ensure proper ventilation. Store in a cool place (2-10°C).



Product Introduction

Glucosylglycerol is a glycoside compound consisting of glycerol linked to glucose through glycosidic bonds. This compound exhibits remarkable moisturizing capabilities. Research has demonstrated that Glucosylglycerol with a 2- α configuration significantly enhances the expression of aquaporin AQP3, the protein crucial for maintaining water retention in skin epithelial cells. Furthermore, studies have confirmed Glucosylglycerol's excellent skin permeability, effectively reducing water loss. 2- α GG possesses numerous physiological activities, including activating and promoting cell regeneration, enhancing cell vitality and metabolism, boosting cellular antioxidant capacity, and promoting collagen synthesis. These characteristics make it a suitable ingredient for cosmetics. Additionally, 2- α GG exhibits non-cariogenic properties, may aid in diabetes management, and supports the growth of probiotics, exhibiting its potential as a health food additive in the future.

The China Food and Drug Administration has included Glucosylglycerol in the 2015 edition of the Catalogue of Used Cosmetic Raw Materials, listed under the name "Glucosylglycerol" with the serial number 02461.d oral bioavailability, making oral administration of the peptide a viable option.

Applications

Glucosylglycerol finds diverse applications in food, cosmetics, and medicine:

In cosmetics and daily necessities, it is commonly utilized as a surfactant in various products such as shampoos, shower gels, facial cleansers, after-sun care products, makeup, anti-aging formulations, moisturizers, and toothpastes. Its exceptional cleaning and moisturizing properties make it a valuable ingredient.

Within the food industry, glucosylglycerol serves as an emulsifier and stabilizer, finding widespread use in products like ice cream, candies, chocolates, and dairy items.

In biomedicine, it can function as a carrier or controlled-release agent for oral medications, and as an osmotic synergist for topical drugs.

Additionally, in biomedicine-care products, glucosylglycerol is often incorporated into eye care formulations like corrective lens cleaning solutions and eyedrops, as well as for wound healing and regeneration purposes.

Finally, in biotechnology, it serves as a component in cell culture media or as a matrix for culturing cells in bioreactors.

Product List

| Product name | Product grade | Packaging |
|------------------|-----------------------|-----------|
| Glucosylglycerol | Industrial grade, 50% | 1kg |



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