

FACT SHEET

ASCORBYL GLUCOSIDE (AG)

PRODUCT OVERVIEW

Ascorbyl Glucoside (AG) is a stable, water-soluble derivative of Vitamin C. It provides the well-known antioxidant and brightening benefits of ascorbic acid with improved stability and formulation flexibility. Once absorbed into the skin, AG is gradually hydrolyzed by α -glucosidase to release active Vitamin C, helping to reduce oxidative stress, promote collagen synthesis, and improve skin tone.

FEATURES AND KINETICS

- High stability compared to pure Vitamin C
- Gradual release of active ascorbic acid in skin
- Effective antioxidant protection
- Brightening and anti-pigmentation effect
- Gentle and well tolerated

MECHANISM OF ACTION

1. Antioxidant defense - Protects skin cells from free radicals and oxidative stress.
2. Collagen stimulation - Supports collagen synthesis, improving firmness and elasticity.
3. Skin brightening - Inhibits melanogenesis, reducing hyperpigmentation and promoting even tone.

KEY INGREDIENTS

- Ascorbyl Glucoside (AG)

STORAGE CONDITIONS

- Storage: 15-25 °C; refrigeration (2-8 °C) optional for extended stability. Avoid >30 °C.
- Protection: Store in tightly sealed, airtight containers, away from light and moisture.
- Handling: Minimize exposure to heat, air, and humidity to prevent hydrolysis and oxidation.

Applications

- Brightening and anti-aging serums/creams for uneven tone, collagen support, and elasticity.
- Daily antioxidant skincare for protection against oxidative stress, sun exposure, and environmental damage.
- Advanced formulations combined with Vitamin E or ferulic acid for synergistic stability and efficacy.