



TECHNICAL DATA SHEET

Item	Specification
Product Name	S-Equol
Chemical Name	(S)-Equol
CAS Number	531-95-3
Molecular Formula	C ₁₅ H ₁₄ O ₃
Molecular Weight	242.27 g/mol
Appearance	White to Off-White Powder
Odor	Characteristic
Solubility	Slightly soluble in water, soluble in ethanol and DMSO
Assay	≥ 98.0%
Identification Method	HPLC
Loss on Drying	≤ 1.0%
Residue on Ignition	≤ 0.5%
Heavy Metals	≤ 10 ppm
Lead (Pb)	≤ 1 ppm
Arsenic (As)	≤ 1 ppm
Cadmium (Cd)	≤ 1 ppm
Mercury (Hg)	≤ 1 ppm
Total Plate Count	≤ 1000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. coli	Negative
Salmonella	Negative

● **Product Description**

S-Equol is a naturally occurring metabolite derived from the biotransformation of daidzein, an isoflavone commonly found in soy products. It is recognized as the biologically active enantiomer of equol and has gained significant attention in nutraceutical, dietary supplement, pharmaceutical, and cosmetic industries due to its selective estrogen receptor modulation properties and antioxidant activity.

S-Equol is widely used in formulations targeting:

- Menopausal health
- Hormonal balance
- Skin health
- Bone support
- Cardiovascular wellness

- Healthy aging

Jiangsu Khonor Chemicals Co., Limited supplies high-quality S-Equol with stable quality and international export support.

● Main Functions and Benefits

1. Hormonal Balance Support

S-Equol can selectively bind to estrogen receptor beta (ER- β), helping support hormonal balance in women, especially during menopause.

2. Menopause Symptom Support

Frequently used in supplements designed to help relieve:

- Hot flashes
- Night sweats
- Mood fluctuations
- Sleep discomfort

3. Bone Health Support

S-Equol may help support healthy bone metabolism and calcium balance.

4. Skin Health and Anti-Aging

Due to its antioxidant activity, S-Equol is increasingly used in cosmetic and beauty formulations to support:

- Skin elasticity
- Moisture retention
- Anti-aging protection

5. Cardiovascular Support

Research suggests S-Equol may contribute to maintaining healthy vascular function and oxidative balance.

● Application Areas

- Dietary Supplements

- Functional Foods
- Nutraceutical Products
- Women’s Health Formulas
- Healthy Aging Products
- Cosmetic and Personal Care Products
- Pharmaceutical Research

● Recommended Storage Conditions

Keep container tightly sealed in a cool and dry place.
Protect from moisture, heat, and direct sunlight.

Recommended storage temperature:

- Below 25°C

● Packaging Information

Standard packaging options:

- 1kg aluminum foil bag
- 5kg carton
- 25kg fiber drum

Customized OEM packaging is available upon request.

● Regulatory and Quality Information

Item	Status
GMO Status	Non-GMO Available
Allergen Status	Free from Common Allergens
BSE/TSE Status	Free
Residual Solvents	Meets USP/ICH Requirements
Manufacturing Standard	GMP / ISO Available
Halal	Available Upon Request
Kosher	Available Upon Request

● Manufacturer Information

Jiangsu Khonor Chemicals Co., Limited specializes in nutrition ingredients, food additives, cosmetic raw materials, and specialty chemicals for global markets.

We provide:

- Stable quality products
- Professional export service
- OEM support
- Customized specifications
- Sample supply for evaluation and testing

For detailed COA, SDS, regulatory documents, or quotation, please contact Jiangsu Khonor Chemicals Co., Limited.