Data Sheet (Cat.No.T22399)

TargetMol

Phytosterols

Chemical Properties

CAS No. : 949109-75-5

Formula:

Molecular Weight:

Storage: Keep away from moisture,Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Phytosterols found in algae have anti-cancer activity and are used in the study of cardiovascular diseases and cancer.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	Phytosterols target neuroinflammation in neurodegenerative diseases. [1] Phytosterols affect the host system, enabling anti-tumor responses by improving cancer immune response recognition, affecting hormone-dependent endocrine tumor growth, and regulating sterol biosynthesis. Phytosterols have also been shown to directly inhibit tumor growth, including reducing cell cycle progression, inducing apoptosis, and inhibiting tumor metastasis. [2]
In vivo	Accumulation of Phytosterols in ABCG5/ G-8 deficient mice develops the characteristics of human sitosteremia, disrupting cholesterol homeostasis by affecting the sterol regulatory element binding protein (SREBP) -2 processing and liver X receptor (LXR) regulatory pathway.

Reference

Dash R, et al. Phytosterols: Targeting Neuroinflammation in Neurodegeneration. Curr Pharm Des. 2021;27(3):383-401.

Shahzad N, et al. Phytosterols as a natural anticancer agent: Current status and future perspective. Biomed Pharmacother. 2017 Apr;88:786-794.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481