MOLNOVA
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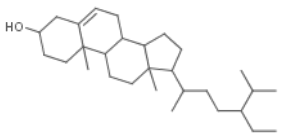
Datasheet (Version 1.0)



Product Name	:	Beta-Sitosterol
Synonyms	:	β-Sitosterol; 22,23-Dihydrostigmasterol
Cat No.	:	M19156
CAS Number	:	83-46-5
Molecular Formula	:	C29H50O
Formula Weight	:	414.72
Chemical Name	:	(24R)-Ethylcholest-5-en-3beta-ol
Description	:	β-Sitosterol has recently been shown to induce G2/M arrest, endoreduplication, and apoptosis through the Bcl-2 and PI3K/Akt signaling pathways. β-Sitosterol, a main dietary phytosterol found in plants, may have the potential for prevention and therapy for human cancer. Although the exact mechanism of action of β-sitosterols is unknown, it may be related to cholesterol metabolism or anti-inflammatory effects (via interference with prostaglandin metabolism). β-Sitosterol induces apoptosis and activates key caspases in MDA-MB-231 human breast cancer cells.
Pathway	:	Others
Target	:	Other Targets
Receptor	:	PPL
Solubility	:	DMSO : < 1 mg/mL; H2O : < 0.1 mg/mL
SMILES	:	[C@@H]1(O)CC2=CC[C@@H]3[C@@H]([C@]2(CC1)C)CC[C@]1([C@H]3CC[C@@H]1[C@@H](CC[C@H](C(C)C)CC)C)C
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1. Wong HS, et al. PhytOthers Res. 2014 Jul;28(7):999-1006.