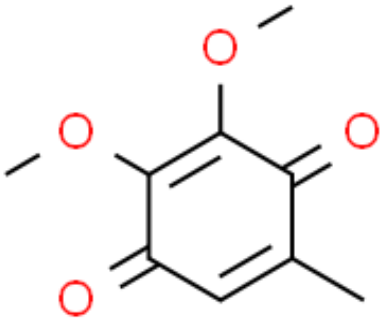
Product Data Sheet

Cas No.:	605-94-7	Cat. No:	PL07429
Product Name:	Coenzyme Q0		
Product synonym:	2,3-二甲氧基-5-甲基-1,4-苯醌;辅酶Q;2,3-Dimethoxy-5-methyl-1,4-benzoquinone 2,3-二甲氧基-5-甲基-1,4-苯醌;2,3-二甲氧基-5-甲基-1,4苯醌;辅霉Q0;2,3-二甲氧基-5-甲基对苯二醌(辅梅Q0);2,3-二甲氧基-5-甲基-对苯醌;钙镁试剂;辅酶 Q0;2,3-二甲氧基-5-甲基-1,4,-对苯二醌;依地卡酮-EP杂质A		
Chemical name:	Coenzyme Q0		
MF:	C9H10O4	FW:	182.1733
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax：	-	Formulation：	-
Solubility :			
SMILES :	O(C([H])([H])[H])C1C(C(C([H])([H])[H])=C([H])C(C=1OC([H])([H])[H])=O)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

Coenzyme Q0 (CoQ0) 是一种口服有效的醌类化合物，可以从 Antrodia cinnamomea 中得到。Coenzyme Q0 诱导细胞凋亡 (apoptosis) 和自噬 (autophagy)，抑制 HER-2/AKT/mTOR 信号通路来增强细胞凋亡和自噬机制。Coenzyme Q0 调节 NFκB/AP-1 的激活，并增强 Nrf2 的稳定，减轻炎症和氧化还原失衡。Coenzyme Q0 通过下调 MMP-9/NF-κB 和上调 HO-1 信号通路具有抗血管生成活性。

生物活性	Coenzyme Q0 (CoQ0) is a potent, oral active ubiquinone compound can be derived from Antrodia cinnamomea. Coenzyme Q0 induces apoptosis and autophagy, suppresses of HER-2/AKT/mTOR signaling to potentiate the apoptosis and autophagy mechanisms. Coenzyme Q0 regulates NFκB/AP-1 activation and enhances Nrf2 stabilization in attenuation of inflammation and redox imbalance. Coenzyme Q0 has anti-angiogenic activity through downregulation of MMP-9/NF-κB and upregulation of HO-1 signaling.

体外研究(In Vitro)	Coenzyme Q0 (0-40 μM; 24 h) and inhibits viability and growth of human ovarian carcinoma cells. Coenzyme Q0 (CoQ0) (0-30 μM; 24 h; SKOV-3 cells) has anti-proliferative activity through induction of G2/M cell-cycle arrest and reduction of cell-cycle regulatory proteins. Coenzyme Q0 (CoQ0) (0-30 μM; 0-30 min; SKOV-3 cells) increases intracellular ROS levels to promote SKOV-3 cell death. Coenzyme Q0 (CoQ0) (0-30 μM; 24 h; SKOV-3 cells) induces autophagy by increase accumulation of LC3-II, GFP-LC3 puncta, AVOs formation and Beclin-1/Bcl-2 dysregulation. Coenzyme Q0 (CoQ0) (0-30 μM; 24 h; SKOV-3 cells) induces apoptosis by mitochondrial (caspase-3, PARP and Bax/Bcl-2 dysregulation) and ER stress (caspase-12 and Hsp70) signals. Coenzyme Q0 (CoQ0) (30 μM; 24 h; SKOV-3 cells) suppresses of HER-2/AKT/mTOR signaling to potentiate the apoptosis and autophagy mechanis
体内研究(In Vivo)	Coenzyme Q0 (CoQ0) (1.5 and 2.5 mg/kg; i.p.; once every four days, for 52 d) suppresses tumor growth in SKOV-3 xenografted nude mice. Coenzyme Q0(CoQ0) (5 mg/kg; p.o.; for 4 h) has anti-inflammatory activities through Nrf2 activation and NFκB inhibition in liver and spleen of LPS-treated mice. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years； 4°C 2 years
溶解度数据	In Vitro: DMSO : 50 mg/mL (274.45 mM; Need ultrasonic)配制储备液