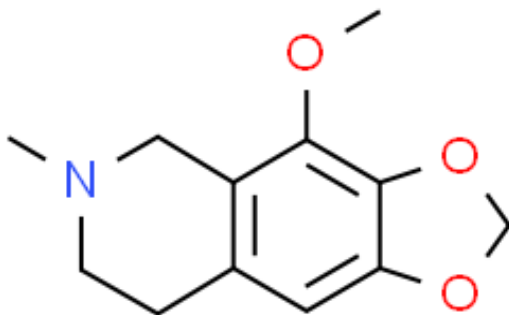


## Product Data Sheet

Cas No.:	550-10-7	Cat. No:	PL06560
Product Name:	Hydrocotarnine		
Product synonym:	诺斯卡品杂质3		
Chemical name:	Hydrocotarnine		
MF:	C12H15NO3	FW:	221.25200
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	COC1C2OCOC=2C=C2CCN(CC=12)C		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

Hydrocotarnine 是一种 Cbl 抑制剂，可导致结肠炎症小体介导的 IL-18 分泌。Hydrocotarnine 能增加细胞糖酵解代谢中的 GLUT1 表达和对葡萄糖的摄取。Hydrocotarnine 在癌症研究中具有镇痛作用。

生物活性	Hydrocotarnine is a Cbl inhibitor, and results in inflammasome-mediated IL-18 secretion in colitis. Hydrocotarnine increases expression of GLUT1 and cellular glucose uptake in glycolytic metabolism. Hydrocotarnine acts as an agent that provides analgesic effect in cancer research.
IC50 & Target[1][2]	Cbl

体外研究(In Vitro)	<p>Hydrocotarnine is an analgesic agent (CRIN-2), with the patent ID of WO2011160016A2.</p> <p>Hydrocotarnine (10 <math>\mu</math>M; 1 h) elevates the secretion of IL-1<math>\beta</math> and IL-18, and (0.1-10 <math>\mu</math>M; 1 h) increases the global level of tyrosine-phosphorylated proteins in THP-1 cells.</p> <p>Hydrocotarnine (50 <math>\mu</math>M; 0-100 min) increases the glycolytic capacity and glycolytic reserve capacity in THP-1-derived macrophages.</p> <p>Hydrocotarnine (50 <math>\mu</math>M; 16 h) inhibits Cbl and increases the total GLUT1 protein in THP-1-derived macrophages.</p> <p>Hydrocotarnine is known to enhance the analgesic effect of opioids, and alleviates cancer pain. has not independently confirmed the accuracy of these methods. They are for reference only.</p>
体内研究(In Vivo)	<p>Hydrocotarnine (10 mg/kg/d; i.p.; 9 d) shows inhibitory effect on Cbl and results in increasing IL-18 levels, indicating that NLRP3 inflammasome activation is enhanced in mice.</p> <p>Hydrocotarnine (10 mg/kg/d; i.p.; 9 d) protects mice from DSS-induced colitis, with low scores of pathological evaluation of inflammation, epithelial defects, and crypt atrophy. has not independently confirmed the accuracy of these methods. They are for reference only.</p>
包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: DMSO : $\geq$ 100 mg/mL (451.98 mM)配制储备液