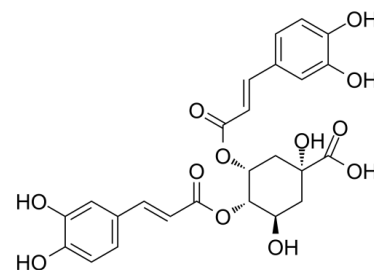


Data Sheet

Product Name:	4,5-Dicaffeoylquinic acid
Cat. No.:	CS-3771
CAS No.:	57378-72-0
Molecular Formula:	C ₂₅ H ₂₄ O ₁₂
Molecular Weight:	516.45
Target:	HBV
Pathway:	Anti-infection
Solubility:	DMSO : 50 mg/mL (96.81 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

4,5-Dicaffeoylquinic acid (Isochlorogenic acid C) possesses potent hepatoprotective and anti-HBV effects. IC₅₀ value: Target: Anti-hepatitis natural produce. In vitro: To study anti-hepatitis effect of isochlorogenic acid C, anti-apoptotic and anti-injury properties of test compound were evaluated. The results showed that test compound at concentrations of 10 to 100 µg/ml significantly reduced the caspase-3 and transformed growth factor β1 (TGFβ1) levels of the D-GalN-challenged hepatocytes. Also, test compound improved markedly cell viability of the D-GalN-injured hepatocytes and produced a maximum protection rate of 47.28% at a concentration of 100 µg/ml. Furthermore, test compound significantly inhibited productions of HBsAg and HBeAg. Its maximum inhibitory rates on the HBsAg and HBeAg expressions were 86.93 and 59.79%, respectively. In addition, test compound significantly induced the HO-1 expression of HepG2.2.15 cells [1]. In vivo:

References:

[1]. Shaoqing Hu, et al.Evaluation of anti-apoptotic, anti-injury and antihepatitis B virus effects of isochlorogenic acid C in vitro. Journal of Medicinal Plants Research Vol. 6(16), pp. 3199-3206 30 April, 2012

CAIndexNames:

Cyclohexanecarboxylic acid, 3,4-bis[[3-(3,4-dihydroxyphenyl)-1-oxo-2-propen-1-yl]oxy]-1,5-dihydroxy-, (1R,3R,4S,5R)-

SMILES:

O=C([C@]1(O)C[C@@H](OC/C=C/C2=CC=C(O)C(O)=C2=O)[C@@H](OC/C=C/C3=CC=C(O)C(O)=C3=O)[C@H](O)C1)O

Caution: Product has not been fully validated for medical applications. For research use only.

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