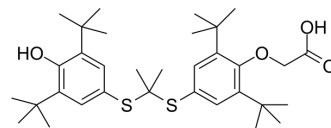


Camobucol

Cat. No.:	HY-14916
CAS No.:	216167-92-9
Molecular Formula:	C ₃₃ H ₅₀ O ₄ S ₂
Molecular Weight:	575
Target:	Others
Pathway:	Others
Storage:	<div> <div>Powder</div> <div>-20°C</div> <div>3 years</div> </div> <div> <div></div> <div>4°C</div> <div>2 years</div> </div> <div> <div>In solvent</div> <div>-80°C</div> <div>6 months</div> </div> <div> <div></div> <div>-20°C</div> <div>1 month</div> </div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (173.91 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.7391 mL	8.6957 mL	17.3913 mL
	5 mM		0.3478 mL	1.7391 mL	3.4783 mL
	10 mM		0.1739 mL	0.8696 mL	1.7391 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Camobucol (AGIX 4207) is an orally active, phenolic antioxidant and anti-inflammatory compound with antirheumatic properties.

In Vitro

Camobucol exhibits potent antioxidant activity toward lipid peroxides in vitro and displays enhanced cellular uptake. Camobucol selectively inhibits tumor necrosis factor (TNF)-α-inducible levels of the redox-sensitive genes, vascular cell adhesion molecule-1 and monocyte chemoattractant protein-1, with less inhibition of E-selectin, and no effect on intracellular adhesion molecule-1 expression in endothelial cells. In addition, Camobucol inhibits cytokine-induced levels of monocyte chemoattractant protein-1, interleukin (IL)-6, and IL-8 from endothelial cells and human fibroblast-like synoviocytes as well as lipopolysaccharide-induced release of TNF-α, IL-1β, and IL-6 from human peripheral blood mononuclear cells. Camobucol does not inhibit TNF-α-induced nuclear translocation of nuclear factor of the κ-enhancer in B cells (NF-κB), suggesting that the mechanism of action is independent of this redox-sensitive transcription factor^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kunsch C, et al. AGIX-4207 [2-[4-[[1-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]thio]-1-methylethyl]thio]-2,6-bis(1,1-dimethylethyl)phenoxy]acetic acid], a novel antioxidant and anti-inflammatory compound: cellular and biochemical characterization of an

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

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