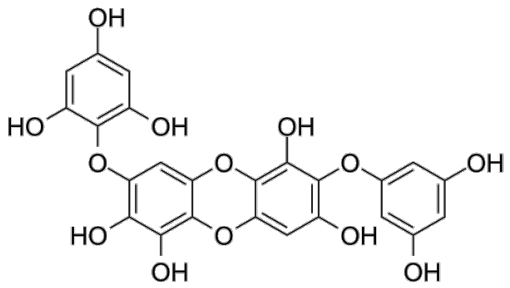
Product Data Sheet

Product Name: Diphlorethohydroxycarmalol
Cat. No.: GC71877

Chemical Properties

Cas. No.	138529-04-1		
Formula	$C_{24}H_{16}O_{13}$	M.Wt	512.38
Solubility	H_2O : 10 mg/mL (19.52 mM; Need ultrasonic and warming)	Storage	-20°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Diphlorethohydroxycarmalol, a kind of phlorotannin, is an orally active α-glucosidase and α-amylase inhibitor with IC50s of 0.16 mM and 0.53 mM, respectively. Diphlorethohydroxycarmalol has anti-diabetic activities.

The increase of postprandial blood glucose levels are significantly suppressed in the Diphlorethohydroxycarmalol-administered group than those in the streptozotocin-induced diabetic or normal mice. Moreover, the area under curve (AUC) is significantly reduced via

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Diphlorethohydroxycarmalol (100 mg/kg; p.o.) administration (2022 versus 2210 mmol x min/lL) in the diabetic mice as well as it delays absorption of dietary carbohydrates[1].

References:

[1]. Soo-Jin Heo, et al. Diphlorethohydroxycarmalol isolated from Ishige okamurae, a brown algae, a potent alpha-glucosidase and alpha-amylase inhibitor, alleviates postprandial hyperglycemia in diabetic mice. Eur J Pharmacol. 2009 Aug 1;615(1-3):252-6.

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