Product Data Sheet

Product Name: Bromelain
Cat. No.: GC62536

Chemical Properties

Cas. No.	9001-00-7		
Formula		M.Wt	
Solubility	DMSO : 6.67 mg/mL (ultrasonic and warming and heat to 60°C)	Storage	Store at -20°C
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

Bromelain is an anti-inflammatory drug derived from pineapple stem that acts through down-regulation of plasma kininogen, inhibition of Prostaglandin E2 expression, degradation of advanced glycation end product receptors and regulation of angiogenic biomarkers as well as antioxidant action upstream in the COX-pathway[1]. Bromelain exhibits various fibrinolytic, antiedematous, antithrombotic, and anti-inflammatory activities. Bromelain also possesses some anticancerous activities and promotes apoptotic cell death[2].

Caution: Product has not been fully validated for medical applications. For research use only.
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Bromelain (40 mg/kg; intraperitoneal injection; daily; for 7 days; male Sprague-Dawley rats) pretreatment reduces the motor dysfunction in the parkinsonian rat model of parkinson's disease (PD). 6-OHDA injection resulted in marked motor impairment which is prevented by pretreatment with Bromelain prior to the lesion[1].

[1]. Adu TS, et al. Effects of bromelain on motor responses following intra-medial forebrain bundle 6-OHDA injection in rat model of parkinsonism. Metab Brain Dis. 2019 Jul 22.
[2]. Pavan R, et al. Properties and therapeutic application of bromelain: a review. Biotechnol Res Int. 2012;2012:976203.

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