

Bromelain

Cat. No.:	HY-129611		
CAS No.:	9001-00-7		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Bromelain

SOLVENT & SOLUBILITY

In Vitro	DMSO : 6.67 mg/mL (ultrasonic and warming and heat to 60°C)
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BIOLOGICAL ACTIVITY

Description
 Bromelain is an anti-inflammatory agent 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].

In Vivo
 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].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats injected with 6-OHDA ^[1]
Dosage:	40 mg/kg
Administration:	Intraperitoneal injection; daily; for 7 days
Result:	Reduced the motor dysfunction in the parkinsonian rat model of parkinson's disease (PD).

REFERENCES

[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.

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

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