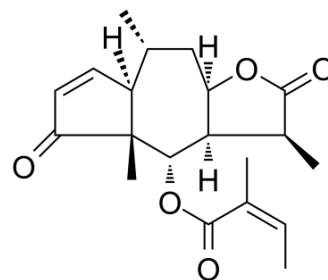


Brevilin A

Cat. No.:	HY-N2959		
CAS No.:	16503-32-5		
Molecular Formula:	C ₂₀ H ₂₆ O ₅		
Molecular Weight:	346.42		
Target:	JAK; STAT; Apoptosis; Autophagy		
Pathway:	Epigenetics; JAK/STAT Signaling; Stem Cell/Wnt; Apoptosis; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description Brevilin A is a sesquiterpene lactone isolated from *Centipeda minima* with anti-tumor activity. Brevilin A is a selective inhibitor of **JAK-STAT** signal pathway by attenuating the JAKs activity and blocking STAT3 signaling (IC₅₀ = 10.6 μM) in Cancer Cells. Brevilin A induces apoptosis and autophagy via mitochondrial pathway and PI3K/AKT/mTOR inactivation in colon adenocarcinoma cell CT26^{[1][2]}.

IC₅₀ & Target IC50: 10.6 μM (STAT3 signaling)^[1]

REFERENCES

- [1]. Chen X, et al. Brevilin A, a novel natural product, inhibits janus kinase activity and blocks STAT3 signaling in cancer cells. *PLoS One*. 2013 May 21;8(5):e63697.
- [2]. You P, et al. Brevilin A induces apoptosis and autophagy of colon adenocarcinoma cell CT26 via mitochondrial pathway and PI3K/AKT/mTOR inactivation. *Biomed Pharmacother*. 2018 Feb;98:619-625.

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

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