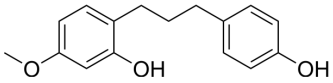
Broussonin A

Cat. No.:	HY-N2960
CAS No.:	73731-87-0
Molecular Formula:	$C_{16}H_{18}O_3$
Molecular Weight:	258.31
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Broussonin A is a potent BChE inhibitor, with an IC_{50} of 4.16 μM. Broussonin A is a diarylpropane natural product that can be isolated from the bark of Broussonetia papyrifera after solid fermentation[1][2][3].
IC_{50} & Target	BChE 4.16 μM (IC_{50})
In Vitro	Broussonin A (0.1-10 μM, 30 min) suppresses VEGF-A-stimulated endothelial cell proliferation by regulating the expression of cell cycle-related proteins and the phosphorylation status of retinoblastoma protein[1]. Broussonin A (0-10 μM, 30 min)abrogates VEGF-A-stimulated angiogenic responses including endothelial cell migration, invasion, tube formation and microvessel formation from rat aortic rings[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kim JH, et al. Broussonin A- and B-mediated inhibition of angiogenesis by blockade of VEGFR-2 signalling pathways and integrin β1 expression. J Cell Mol Med. 2022 Feb;26(4):1194-1205.

[2]. Lee JP, et al. Potent inhibition of acetylcholinesterase by sargachromanol I from Sargassum siliquastrum and by selected natural compounds. Bioorg Chem. 2019 Aug;89:103043.

[3]. Chang C F, et al. Bioactive compounds from the bark of Broussonetia papyrifera after solid fermentation with a white rot fungus Perenniporia tephropora[J]. Journal of Wood Chemistry and Technology, 2020:1-14.

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

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