

Supplementary Table 2: Inhibition of pro-inflammatory enzymes determined for polyphenol compounds identified in tested ferns.

Compound	Inhibition (IC ₅₀ in μ M)				References
	COX-1	COX-2	5-LOX	15-LOX	
Caffeic a.	0% at 25 μ g/mL	45% at 25 μ g/mL 62 μ g/mL	n.a. 3.7		E. J. Lee et al., 2010 Jayaprakasam, Vanisree, Zhang, Dewitt, & Nair, 2006 Nile, Ko, Kim, & Keum, 2016 Koshihara et al., 1984
Chlorogenic a.		30	n.a. 13% at 50 μ M		E. J. Lee et al., 2010) Kwon, Choi, Islam, Kim, & Kim, 2011 Frei, Nadegger, Vollmar, Müller, & Moser, 2024
Ferulic a.		65 μ g/mL	74% at 100 μ M		Nile et al., 2016 Devi, Ramanan, Paragi-Vedanthi, & Doble, 2017
p-Coumaric a.		40 μ g/mL			Nile et al., 2016
Protocatechuic a.			n.a.		E. J. Lee et al., 2010
Kaempferol	≥ 100 43.8 7.5	68.6 n.a. $\leq 50\mu$ M 269	n.a. $\leq 50\mu$ M 3.38	n.a.	Lee & Kim, 2010 Kutil et al., 2014 Zhang et al., 2006 El Jemli et al., 2024
Luteolin	n.a. 10% at 20 μ M n.a. $\leq 50\mu$ M	59.9 39% at 20 μ M n.a. $\leq 50\mu$ M	75% at 20 μ M 2.25 0.8	83% at 100 μ M	Lee & Kim, 2010 Lajter et al., 2015 Kutil et al., 2014 E. J. Lee et al., 2010
Luteolin-7-glucoside	92.3	39.1	n.a.		Li et al., 2008 E. Lee et al., 2010
Quercetin	81.1 n.a. $\leq 50\mu$ M	72.3 n.a. $\leq 50\mu$ M	0.7 3.29 1.52	93% at 100 μ M	Lee & Kim, 2010 Kwon et al., 2011 Kutil et al., 2014 El Jemli et al., 2024
Rutin	≥ 100	77.9	n.a.	n.a.	Lee & Kim, 2010 Khelifi, Hayouni, Cazaux, Ksouri, & Bouajila, 2020
Taxifolin			20% at 100 μ M		Khelifi et al., 2020

n.a. = not active

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