Emodin
PRODUCT DATA SHEET

issue date 01/06/2020

Product Name: Emodin

Product Number: E064

CAS Number: 518-82-1

Molecular Formula: $C_{15}H_{10}O_5$

Molecular Weight: 270.24

Description: Emodin is a tyrosine kinase inhibitor found in multiple plants with a variety of bioactivity including anti-inflammatory, antiviral, antibacterial and anticancer activity. As an anticancer agent it has drawn attention by showing promising therapeutic effects on multiple times of cancer with and without combination treatment. As an antiviral, it has been shown to act as an interferon inducer.

Emodin is soluble in DMSO and alcohol, and practically insoluble in water.

Mechanism of Action: Emodin has been reported to have anticancer effects in multiple different types of cancer through different mechanisms. More research will be needed to elucidate the exact mechanism of action.

References:

Lin, C., Wu, C., Hsiao, N., Chang, C., Li, S., Wan, L., . . . Lin, W. (2008). Aloe-emodin is an interferon-inducing agent with antiviral activity against Japanese encephalitis virus and enterovirus 71. *International Journal of Antimicrobial Agents*, 32(4), 355-359. doi:10.1016/j.ijantimicag.2008.04.018

Lin, S., Wei, W., Liu, D., & Wang, Z. (2013). The distinct mechanisms of the antitumor activity of emodin in different types of cancer (Review). *Oncology Reports*, 30(6). doi:10.3892/or.2013.2741