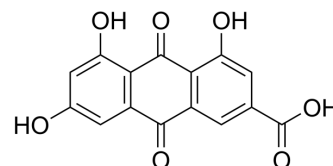


## Emodic acid

Cat. No.:	HY-134000
CAS No.:	478-45-5
Molecular Formula:	C <sub>15</sub> H <sub>8</sub> O <sub>7</sub>
Molecular Weight:	300.22
Target:	p38 MAPK; NF-κB; ERK; JNK; VEGFR; MMP
Pathway:	MAPK/ERK Pathway; NF-κB; Stem Cell/Wnt; Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	Emodic acid (NSC624610) is an anthraquinone compound isolated from <i>A. microcarpus</i> , which can inhibit the proliferation of cancer cells by inhibiting the activity of NF-κB. Emodic acid can also inhibit the phosphorylation of p38, ERK and JNK, the secretion of tumor-promoting cytokines IL-1β and IL-6, and the expression of VEGF and MMP, thereby inhibiting the invasion and migration potential of cancer cells <sup>[1]</sup> .
In Vitro	Emodic acid (0-100 μM, 72 h) exhibits strong antiproliferative activity with the IC <sub>50</sub> values of 9.33, 8.56, 7.95 μM in murine mammary carcinoma 4T1, MDA-231 and MCF-7 cell lines, respectively <sup>[1]</sup> . Emodic acid (50 μM, 24 h) can significantly inhibit NF-κB transcriptional activity by 80.75%, inhibit p65 phosphorylation and the mRNA expression of MMP-9 in 4T1 cell line <sup>[1]</sup> . Emodic acid (50 μM, 24 h) can inhibit the secretion of tumor-promoting cytokines IL-1β and IL-6, as well as the expression of VEGF, thereby inhibiting the invasion and migration of 4T1 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Amira A Abdellatif, et al. Inhibition of cell-intrinsic NF-κB activity and metastatic abilities of breast cancer by aloe-emodin and emodic-acid isolated from *Asphodelus microcarpus*. J Nat Med. 2021 Sep;75(4):840-853.

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

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