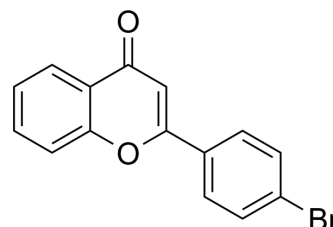


4'-Bromoflavone

Cat. No.:	HY-115772
CAS No.:	20525-20-6
Molecular Formula:	C ₁₅ H ₉ BrO ₂
Molecular Weight:	301.13
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	4'-Bromoflavone, a cancer chemopreventive agent, is a potent phase II detoxification enzymes inducer ^[1] .
In Vitro	<p>4'-Bromoflavone significantly induces quinone reductase (QR) activity in cultured murine hepatoma 1c1c7 cells (concentration to double activity: 10 nM) and effectively induces the α- and mu-isoforms of glutathione S-transferase in cultured H4IIE rat hepatoma cells with no observed toxicity^[1].</p> <p>4'-Bromoflavone is a potent inhibitor of cytochrome P4501A1-mediated ethoxyresorufin-O-deethylase activity, with an IC₅₀ of 0.86 μM. In HepG2 or MCF-7 cells, 4'-Bromoflavone significantly reduces the covalent binding of metabolically activated benzo[a]pyrene to cellular DNA^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>In short-term dietary studies, 4'-Bromoflavone is also shown to increase QR activity and glutathione levels in rat liver, mammary gland, colon, stomach, and lung in a dose-dependent manner. In studies conducted with female Sprague Dawley rats, 4'-Bromoflavone significantly increases QR activity (phase II enzyme)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. L L Song, et al. Cancer chemopreventive activity mediated by 4'-bromoflavone, a potent inducer of phase II detoxification enzymes. Cancer Res. 1999 Feb 1;59(3):578-85.

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

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