



LKT Laboratories, Inc.

B-Naphthoflavone

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Product Information

Product ID N0161

CAS No. 6051-87-2

Chemical Name

Synonym 5,6-Benzoflavone

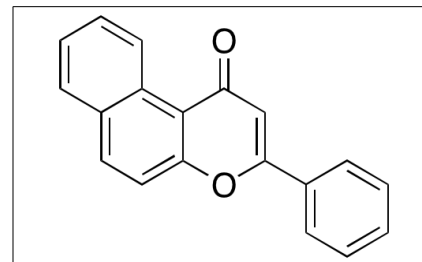
Formula C₁₉H₁₂O₂

Formula Wt. 272.30

Melting Point 164-166°C

Purity ≥98%

Solubility Slightly soluble in DMSO.



Bulk quantities available upon request

Product ID	Size
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N0161	1 g
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N0161	5 g
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Store Temp Ambient

Ship Temp Ambient

Description B-Naphthoflavone is an agonist at the aryl hydrocarbon receptor and an inducer of phase II enzymes. B-Naphthoflavone exhibits anticancer and chemopreventive activities but also displays tumor-promoting activity in other models. In animal models, B-naphthoflavone inhibits cigarette smoke-induced DNA damage and tumor development. In breast cancer cells, this compound induces G0/G1 phase cell cycle arrest, downregulates expression of cyclin D1, cyclin D3, and CDK4, upregulates expression of p21, inhibits PI3K/Akt signaling, and activates MAPK/ERK signaling.

References Wang C, Xu CX, Bu Y, et al. Beta-naphthoflavone (DB06732) mediates estrogen receptor-positive breast cancer cell cycle arrest through AhR-dependent regulation of PI3K/AKT and MAPK/ERK signaling. *Carcinogenesis*. 2014 Mar;35(3):703-13. PMID: 24163404.

Tilton SC, Givan SA, Pereira CB, et al. Toxicogenomic profiling of the hepatic tumor promoters indole-3-carbinol, 17beta-estradiol and beta-naphthoflavone in rainbow trout. *Toxicol Sci*. 2006 Mar;90(1):61-72. PMID: 16192472.

Izzotti A, Bagnasco M, Cartiglia C, et al. Modulation of multigene expression and proteome profiles by chemopreventive agents. *Mutat Res*. 2005 Dec 11;591(1-2):212-23. PMID: 16083920.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.