

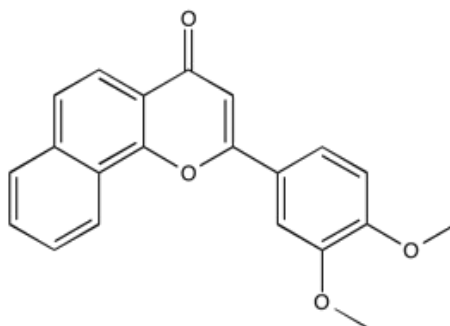
**Catalog # 10-1557**

**DiMNF**

CAS# 14756-24-2

3',4'-Dimethoxy- $\alpha$ -naphthoflavone  
2-(3,2-Dimethoxyphenyl)-4H-naphtho[1,2-b]pyran-4-one

Lot # X106417



DiMNF is a selective aryl hydrocarbon receptor (AHR) modulator (SAhRM). It exhibits antiinflammatory activity including suppression of cytokine-mediated acute phase genes through dissociation of non-dioxin-response element (DRE) AHR activity from DRE-dependent xenobiotic gene expression<sup>1</sup>. Represses the cytokine-mediated induction of CD55 and therefore may have therapeutic potential in regulating the immune response to tumor formation<sup>2</sup>. Represses estrogen-inducible transcription<sup>3</sup>.

- 1) Murray *et al.* (2011), *Suppression of cytokine-mediated complement factor gene expression through selective activation of the Ah receptor with 3',4'-dimethoxy- $\alpha$ -naphthoflavone*; Mol. Pharmacol., **79** 508
- 2) Narayanan *et al.* (2012), *Selective aryl hydrocarbon receptor modulator-mediated repression of CD55 expression induced by cytokine exposure*; J. Pharmacol. Exp. Ther., **342** 345
- 3) Labrecque *et al.* (2012), *Distinct roles for aryl hydrocarbon receptor nuclear translocator and ah receptor in estrogen-mediated signaling in human cancer cell lines*; PLoS One, **7(1)** e29545

**PHYSICAL DATA**

Molecular Weight:	332.45
Molecular Formula:	C <sub>21</sub> H <sub>16</sub> O <sub>4</sub>
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 1.5 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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