

Certificate of Analysis

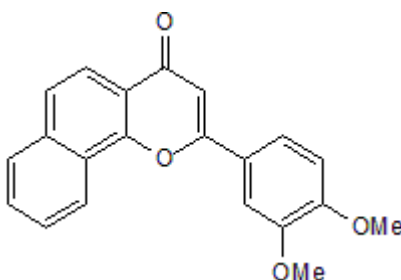
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Product Name: DiMNF
CAS Number: 14756-24-2
IUPAC Name: 2-(3,4-Dimethoxyphenyl)-4*H*-naphtho[1,2-*b*]pyran-4-one

Catalog No.: 4628 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₆O₄
Batch Molecular Weight: 332.35
Physical Appearance: White solid
Solubility: DMSO to 5 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.89	4.85	
Found	75.74	4.77	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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IUPAC Name: 2-(3,4-Dimethoxyphenyl)-4*H*-naphtho[1,2-*b*]pyran-4-one

Description:

Selective aryl hydrocarbon receptor (AHR) modulator (SAhRM). Suppresses expression of CD55 and CD46 induced by IL-1 β in an inflammatory tumor cell microenvironment; exhibits no effect on basal CD55 or CD46 expression.

Physical and Chemical Properties:

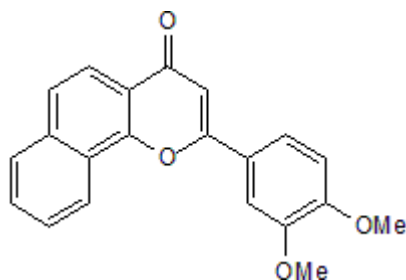
Batch Molecular Formula: C₂₁H₁₆O₄

Batch Molecular Weight: 332.35

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 5 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Murray *et al* (2011) Suppression of cytokine-mediated complement factor gene expression through selective activation of the Ah receptor with 3',4'-dimethoxy- α -naphthoflavone. *Mol.Pharmacol.* **79** 508. PMID: 21127131.

Narayanan *et al* (2012) Selective aryl hydrocarbon receptor modulator-mediated repression of CD55 expression induced by cytokine exposure. *J.Pharmacol.Exp.Ther.* **342** 345. PMID: 22553215.

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** e29545. PMID: 22235307.

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