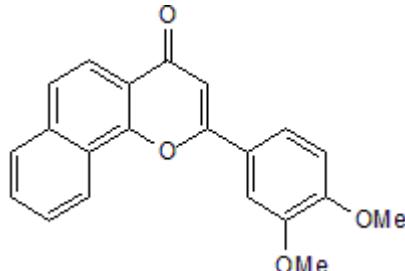


Certificate of Analysiswww.tocris.com**Product Name:** DiMNF**Catalog No.:** 4628**Batch No.:** 1

CAS Number: 14756-24-2

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

bio-technne.com

info@bio-technne.com

techsupport@bio-technne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-technne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: DiMNF**Catalog No.:** 4628**Batch No.:** 1

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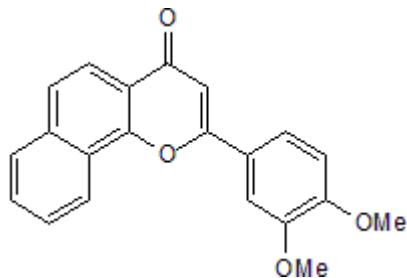
IUPAC Name: 2-(3,4-Dimethoxyphenyl)-4H-naphtho[1,2-*b*]pyran-4-one**Description:**

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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info@bio-technne.com

techsupport@bio-technne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-technne.com

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Tel: +1 612 379 2956