

Certificate of Analysis

www.tocris.com

Product Name: TAS 301

Catalog No.: 4521

Batch No.: 1

CAS Number: 193620-69-8

IUPAC Name: 3-[Bis(4-methoxyphenyl)methylene]-1,3-dihydro-2H-indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:

$C_{23}H_{19}NO_3$

Batch Molecular Weight:

357.4

Physical Appearance:

Yellow solid

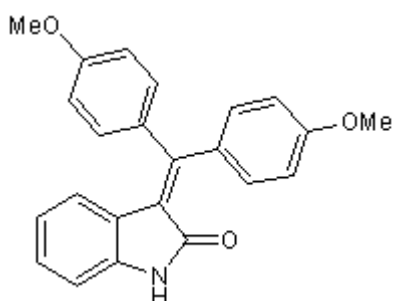
Solubility:

DMSO to 100 mM

Storage:

Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC:

$R_f = 0.5$ (Ethyl acetate:Petroleum ether [1:1])

HPLC:

Shows 99.7% purity

1H NMR:

Consistent with structure

Mass Spectrum:

Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	77.3	5.36	3.92
Found	77.02	5.32	4.11

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Information

www.tocris.com

Product Name: TAS 301

Catalog No.: 4521

Batch No.: 1

CAS Number: 193620-69-8

IUPAC Name: 3-[Bis(4-methoxyphenyl)methylene]-1,3-dihydro-2H-indol-2-one

Description:

Inhibitor of smooth muscle cell migration and proliferation. Blocks voltage-independent calcium influx and downstream PKC signaling. Inhibits neointimal thickening after balloon catheter injury to the rat common carotid artery.

Physical and Chemical Properties:

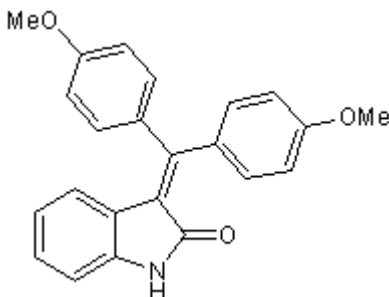
Batch Molecular Formula: C₂₃H₁₉NO₃

Batch Molecular Weight: 357.4

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 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:

Muranaka *et al* (1998) TAS-301, an inhibitor of smooth muscle cell migration and proliferation, inhibits intimal thickening after balloon injury to rat carotid arteries. *J.Pharmacol.Exp.Ther.* **285** 1280. PMID: 9618434.

Sasaki *et al* (2000) TAS-301 blocks receptor-operated calcium influx and inhibits rat vascular smooth muscle cell proliferation induced by basic fibroblast growth factor and platelet-derived growth factor. *Jpn.J.Pharmacol.* **84** 252. PMID: 11138725.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956