TOCRIS
a bio-techne brand

Print Date: Sep 5th 2019

Certificate of Analysis

www.tocris.com

Product Name: **A 1899** **Catalog No.: 6972** **Batch No.: 1**

CAS Number: 498577-46-1

IUPAC Name: *N*-[(2,4-Difluorophenyl)methyl]-2'-[[[2-(4-methoxyphenyl)acetyl]amino]methyl][1,1'-biphenyl]-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{30}H_{26}F_2N_2O_3$

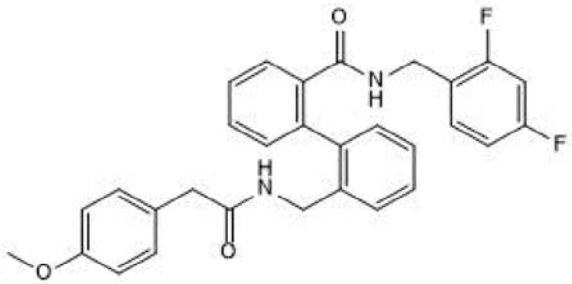
Batch Molecular Weight: 500.55

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.47 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 98.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.99	5.24	5.6
Found	71.79	5.31	5.57

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

Product Name: **A 1899** **Catalog No.: 6972** **Batch No.: 1**

CAS Number: 498577-46-1

IUPAC Name: *N*-[(2,4-Difluorophenyl)methyl]-2'-[[[2-(4-methoxyphenyl)acetyl]amino]methyl][1,1'-biphenyl]-2-carboxamide

Description:

Potent $K_{2P}3.1$ (TASK-1) and $K_{2P}9.1$ (TASK-3) channel blocker (IC_{50} values are 7 nM and 70 nM for human TASK-1 and TASK-3 expressed in CHO cells, respectively). Displays >12.5-fold selectivity for TASK-1 and TASK-3 over other K^+ channels (IC_{50} = 0.9 µM for $K_{2P}18.1$/TRESK and >2 µM for all other channels tested). Binds within open channel pore.

Physical and Chemical Properties:

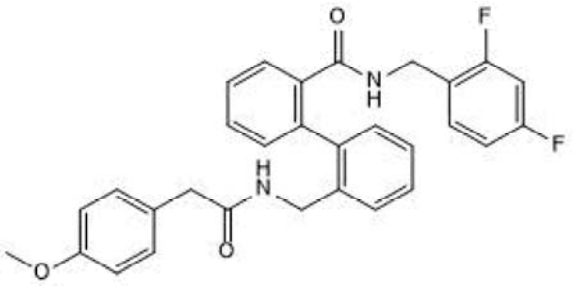
Batch Molecular Formula: $C_{30}H_{26}F_2N_2O_3$

Batch Molecular Weight: 500.55

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 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:

Streit *et al* (2011) A specific two-pore domain potassium channel blocker defines the structure of the TASK-1 open pore. J.Biol.Chem. ***286*** 13977. PMID: 21362619.

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