TOCRIS
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Print Date: Jan 16th 2016

Certificate of Analysis

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Product Name: **ML 365** **Catalog No.: 5337** **Batch No.: 1**

CAS Number: 947914-18-3

IUPAC Name: 2-Methoxy-*N*-[3-[(3-methylbenzoyl)amino]phenyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{20}N_2O_3 \cdot ¼H_2O$

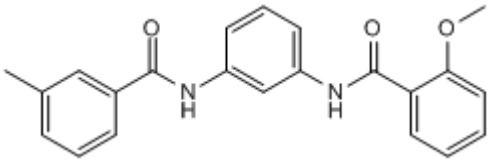
Batch Molecular Weight: 364.91

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.41	5.66	7.68
Found	72.37	5.56	7.68

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Description:

Potent and selective TASK-1 (K_{2P}3.1/KCNK3) channel blocker (IC_{50} values are 4 and 390 nM at TASK-1 and TASK-3, respectively). Displays little or no inhibition at K_{ir}2.1, voltage-gated potassium channels, KCNQ2 and K_V11.1 (hERG).

Physical and Chemical Properties:

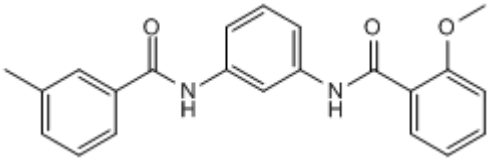
Batch Molecular Formula: $C_{22}H_{20}N_2O_3.¼H_2O$

Batch Molecular Weight: 364.91

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 50 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:

Zou *et al* (2013) ML365: Development of bis-amides as selective inhibitors of the KCNK3/TASK1 two pore potassium channel. Probe Reports from the NIH Molecular Libraries Program. PMID: 24479195.

Flaherty *et al* (2014) Potent and selective inhibitors of the TASK-1 potassium channel through chemical optimization of a bis-amide scaffold. Bioorg.Med.Chem.Lett. ***24*** 3968. PMID: 25017033.

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