

Certificate of Analysis

www.tocris.com

Product Name: ZM 39923 hydrochloride

Catalog No.: 1367

Batch No.: 2

CAS Number: 1021868-92-7

IUPAC Name: 3-benzylisopropylamino-1-naphthalen-2-yl-propan-1-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₅NO.HCl.¾H₂O

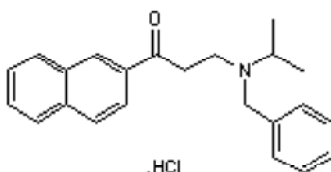
Batch Molecular Weight: 381.43

Physical Appearance: White crystalline solid

Solubility: DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 149 - 151°C

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 72.43 | 7.27 | 3.67 |
| Found | 72.45 | 7.29 | 3.79 |

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 Name: ZM 39923 hydrochloride

Catalog No.: 1367

Batch No.: 2

CAS Number: 1021868-92-7

IUPAC Name: 3-benzylisopropylamino-1-naphthalen-2-yl-propan-1-one hydrochloride

Description:

Potent, selective inhibitor of Janus tyrosine kinase 3 (JAK3). pIC₅₀ values are 7.1, 5.6, 4.4, and < 5.0 for JAK3, EGFR, JAK1 and CDK4 respectively. Breaks down in neutral buffer (t_{1/2} = 36 mins, pH 7.43, 25°C) to form ZM 449829 (Cat. No. 1366).

Physical and Chemical Properties:

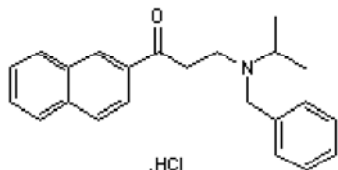
Batch Molecular Formula: C₂₃H₂₅NO.HCl.¾H₂O

Batch Molecular Weight: 381.43

Physical Appearance: White crystalline solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

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.

Licensing Information:

Sold with the permission of AstraZeneca Ltd.

References:

Brown et al (2000) Naphthyl ketones: a new class of janus kinase 3 inhibitors. *Bioorg.Med.Chem.Lett.* **10** 575. PMID: 10741557.

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