

Certificate of Analysis

Print Date: Jan 14th 2016 **WWW.tocris.com**

Product Name: ML 202 Catalog No.: 4859 Batch No.: 1

CAS Number: 1221186-52-2

IUPAC Name: 4,6-Dihydro-6-[(3-methoxyphenyl)methyl]-4-methyl-2-(methylsulfinyl)-5*H*-thieno[2',3':4,5]pyrrolo[2,3-d]pyridazin-5-

one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{17}N_3O_3S_2$

Batch Molecular Weight: 387.48 **Physical Appearance:** White solid

Solubility: DMSO to 100 mM Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.43$ (Dichloromethane:Methanol [95:5])

HPLC: Shows >98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 55.8 4.42 10.84 Found 55.46 4.43 10.7



Product Information

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Description:

Potent activator of pyruvate kinase M2 (PKM2) ($IC_{50} = 73$ nM). Exhibits little or no activity against the pyruvate kinase isozymes PKM1, PKL and PKR.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₈H₁₇N₃O₃S₂ Batch Molecular Weight: 387.48

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store 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.

References:

Boxer *et al* (2010) Identification of activators for the M2 isoform of human pyruvate kinase version 3. Probe Reports from the Molecular Libraries Program. PMID: 21735594.

Jiang *et al* (2010) Evaluation of thieno[3,2-*b*]pyrrole[3,2-*d*]pyridazinones as activators of the tumor cell specific M2 isoform of pyruvate kinase. Bioorg.Med.Chem.Lett. **20** 3387. PMID: 20451379.