

Certificate of Analysis

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Product Name: Jedi2

Catalog No.: 6614

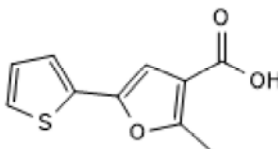
Batch No.: 2

CAS Number: 651005-90-2

IUPAC Name: 2-Methyl-5-(2-thienyl)-3-furancarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₈O₃S
Batch Molecular Weight: 208.23
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.68	3.87	0
Found	57.7	3.79	0.1

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

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CAS Number: 651005-90-2

IUPAC Name: 2-Methyl-5-(2-thienyl)-3-furancarboxylic acid

Description:

Jedi2 is a piezo1 channel activator. Promotes Ca²⁺ influx into HEK293 cells expressing Piezo1 channels. Elicits responses in mouse Piezo1-transfected, but not Piezo2-transfected cells.

Physical and Chemical Properties:

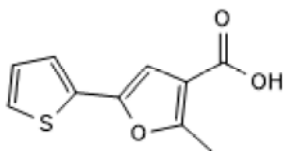
Batch Molecular Formula: C₁₀H₈O₃S

Batch Molecular Weight: 208.23

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Wang et al (2018) A lever-like transduction pathway for long-distance chemical- and mechano-gating of the mechanosensitive Piezo1 channel. *Nat. Commun.* **9** 1300. PMID: 29610524.

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