

Certificate of Analysis

Product Name: NK 252

Catalog No.: 5293

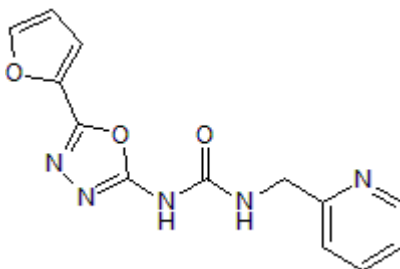
Batch No.: 1

CAS Number: 1414963-82-8

IUPAC Name: *N*-[5-(2-Furanyl)-1,3,4-oxadiazol-2-yl]-*N*-(2-pyridinylmethyl)urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₁N₅O₃
Batch Molecular Weight: 285.26
Physical Appearance: White solid
Solubility: 1eq. HCl to 100 mM
 DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	54.74	3.89	24.55
Found	54.72	3.85	24.72

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

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Description:

Nrf2 activator; interacts with the Nrf2-binding site of Keap1. Downregulates the expression of fibrogenic genes and increases antioxidant effects in NASH rat models of liver disease.

Physical and Chemical Properties:

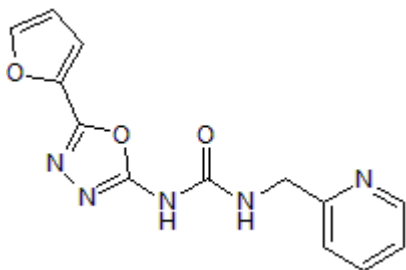
Batch Molecular Formula: C₁₃H₁₁N₅O₃

Batch Molecular Weight: 285.26

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Shimozono et al (2013) Nrf2 activators attenuate the progression of nonalcoholic steatohepatitis-related fibrosis in a dietary rat model. *Mol.Pharmacol.* **84** 62. PMID: 23592516.

Storage: Store at +4°C

Solubility & Usage Info:

1eq. HCl to 100 mM

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.

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