

**Product Name:** NK 252

**Catalog No.:** 5293

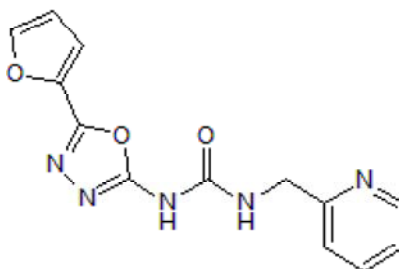
**Batch No.:** 1

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:** C<sub>13</sub>H<sub>11</sub>N<sub>5</sub>O<sub>3</sub>  
**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<sub>f</sub> = 0.29 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 99.7% purity  
<sup>1</sup>H 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

**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](http://www.tocris.com/distributors)

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**Description:**

NK 252 is an 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:**

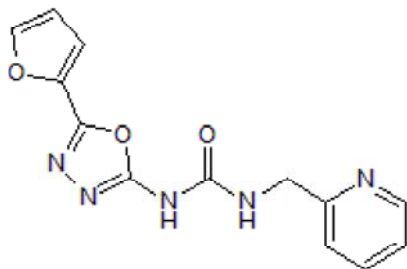
Batch Molecular Formula: C<sub>13</sub>H<sub>11</sub>N<sub>5</sub>O<sub>3</sub>

Batch Molecular Weight: 285.26

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**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.

**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.

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