

**Product Name:** Nexinhib20

**Catalog No.:** 6089

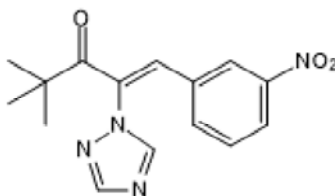
**Batch No.:** 1

CAS Number: 331949-35-0

IUPAC Name: 4,4-Dimethyl-1-(3-nitrophenyl)-2-(1*H*-1,2,4-triazol-1-yl)-1-penten-3-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>16</sub>N<sub>4</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 300.31  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.28 (Ethyl acetate:Petroleum ether [1:3])  
**HPLC:** Shows 99.8% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure  
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.99	5.37	18.66
Found	60.09	5.37	18.67

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

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**Description:**

Rab27 inhibitor (IC<sub>50</sub> = 330 nM); inhibits Rab27a-JFC1 binding. Selectively inhibits neutrophil exocytosis, with no significant effect on other important innate immune responses including phagocytosis. Suppresses extracellular production of superoxide anion and cytochrome b plasma membrane expression. Also inhibits upregulation of adhesion molecules CD11b and CD66b. Displays in vivo anti-inflammatory activity.

**Physical and Chemical Properties:**

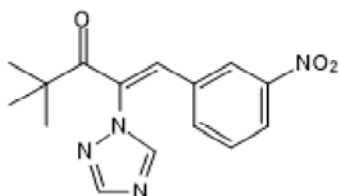
Batch Molecular Formula: C<sub>15</sub>H<sub>16</sub>N<sub>4</sub>O<sub>3</sub>

Batch Molecular Weight: 300.31

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Johnson et al** (2016) Identification of neutrophil exocytosis inhibitors (Nexinhibs), small molecule inhibitors of neutrophil exocytosis and inflammation: druggability of the small GTPase Rab27a. *J.Biol.Chem.* **291** 25965. PMID: 27702998.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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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