

**Product Name:** Selinexor

**Catalog No.:** 7760

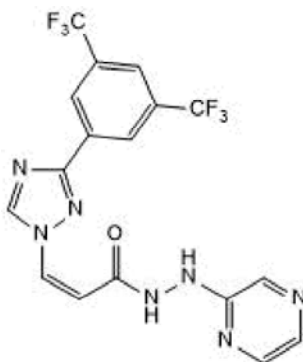
**Batch No.:** 1

CAS Number: 1393477-72-9

IUPAC Name: (2Z)-3-[3-[3,5-Bis(trifluoromethyl)phenyl]-1H-1,2,4-triazol-1-yl]-2-propenoic acid 2-(2-pyrazinyl)hydrazide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>11</sub>F<sub>6</sub>N<sub>7</sub>O  
**Batch Molecular Weight:** 443.31  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
ethanol to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	46.06	2.5	22.12
Found	46.09	2.75	22.1

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

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**Description:**

Selinexor is an inhibitor of the exportin 1 (XPO1/CRM1) nuclear exporter. Shows selectivity for TNBC over ER-positive breast cancer cell lines (IC<sub>50</sub> values are 11-550 nM and >1000 nM, respectively), and reduces growth of xenografts. Inhibits growth of thyroid cancer cell lines (IC<sub>50</sub> = 150-500 nM), potentiates the anti-tumor effects of Olaparib (Cat. No. 7579) in ovarian cancer and breast cancer. Also a potent inhibitor of SARS-CoV-2 replication in vitro (EC<sub>50</sub> = 10 nM) and downregulates the production of pro-inflammatory cytokines including TNF-α and IL-6.

**Physical and Chemical Properties:**

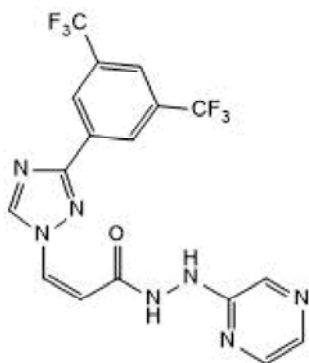
Batch Molecular Formula: C<sub>17</sub>H<sub>11</sub>F<sub>6</sub>N<sub>7</sub>O

Batch Molecular Weight: 443.31

Physical Appearance: Beige solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Kashyap et al (2021)** Selinexor, a novel selective inhibitor of nuclear export, reduces SARS-CoV-2 infection and protects the respiratory system in vivo. *Antiviral Res.* **192** 105115. PMID: 34157321.

**Marijon et al (2021)** Selinexor, a selective inhibitor of nuclear export, enhances the anti-tumor activity of olaparib in triple negative breast cancer regardless of BRCA1 mutation status. *Oncotarget.* **12** 1749. PMID: 34504648.

**Arango et al (2017)** Selinexor (KPT-330) demonstrates anti-tumor efficacy in preclinical models of triple-negative breast cancer. *Breast Cancer Res.* **19** 93. PMID: 28810913.

**Storage:** Store at -20°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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