

Product Name: Verdinoxor

Catalog No.: 7569

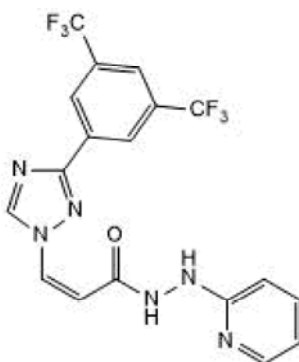
Batch No.: 1

CAS Number: 1392136-43-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₂F₆N₆O
Batch Molecular Weight: 442.32
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
ethanol to 5 mM
Storage: Store at -20°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	48.88	2.73	19
Found	48.93	2.61	19

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

Product Name: Verdinexor

Catalog No.: 7569

1

CAS Number: 1392136-43-4

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

Description:

Verdinexor is a selective exportin-1 (XPO1/CRM1) inhibitor. It potently inhibits influenza virus ribonucleoprotein (vRNP) export by disrupting XPO1-NEP binding and the replication of influenza virus A and B strains *in vitro*, including H1N1, H5N1 and H7N9 (IC₅₀ values in the range 40 - 420 nM range). Verdinexor limits influenza A virus spread in mouse lung *in vivo*. In neuroblastoma, verdinexor suppresses cell proliferation and induces cell apoptosis. It also induces P53 nuclear accumulation and induces G₀/G₁ phase cell cycle arrest by activating P53 function. Verdinexor inhibits tumor growth in *in vivo* mouse models. Orally bioavailable. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

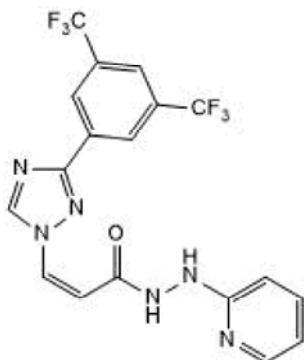
Batch Molecular Formula: C₁₈H₁₂F₆N₆O

Batch Molecular Weight: 442.32

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Pan (2021) XPO1/CRM1 is a promising prognostic indicator for neuroblastoma and represented a therapeutic target by selective inhibitor verdinexor. *J.Exp.Clin.Cancer Res.* **40** 255. PMID: 34384466.

Perwitasari et al (2014) Verdinexor, a novel selective inhibitor of nuclear export, reduces influenza a virus replication *in vitro* and *in vivo* *J.Virol.* **88** 10228. PMID: 24965445.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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.

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

Tel:+1 612 379 2956