

## Product Information

**Product ID** V182685

**CAS No.** 1392136-43-4

**Chemical Name** (2Z)-3-(3-(3,5-Bis(trifluoromethyl)phenyl)-1H-1,2,4-triazol-1-yl)-N-(pyridin-2-yl)prop-2-enehydrazide

**Synonym** KPT-335, 2-Propenoic acid, 3-(3-(3,5-bis(trifluoromethyl)phenyl)-1H-1,2,4-triazol-1-yl)-, 2-(2-pyridinyl)hydrazide, (2Z)-

**Formula** C<sub>18</sub>H<sub>12</sub>F<sub>6</sub>N<sub>6</sub>O

**Formula Wt.** 442.33

**Melting Point**

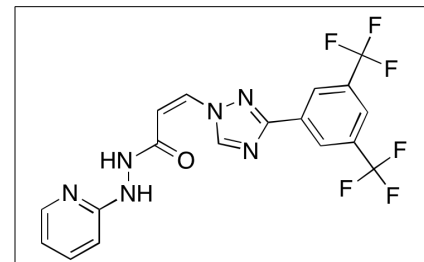
**Purity** ≥99%

**Solubility** Insoluble in water. Soluble in DMSO, 80 mg/mL (180 mM).

**Store Temp** 4° C

**Ship Temp** Ambient

**Description** Verdinexor is a selective inhibitor of nuclear transport (SINE) that targets the export protein CRM1 (also known as XPO1). Verdinexor has shown cytotoxic activity in canine non-Hodgkin lymphoma and melanoma cells, including inhibition of proliferation and colony formation, induction of apoptosis, downregulation of CRM1 expression, and modulation of p53 expression. Treatment of BALB/c female mice with verdinexor post-infection with influenza virus was shown to reduce pulmonary pro-inflammatory cytokine expression and moderate leukocyte infiltration. In addition, ferrets treated orally showed reduced lung pathology, virus burden, and inflammatory cytokine expression.



**Bulk quantities available upon request**

Product ID	Size
V182685	1 mg
V182685	5 mg
V182685	25 mg

**References** Gravina GL, Senapedis W, McCauley D, et al. Nucleo-cytoplasmic transport as a therapeutic target of cancer. *J Hematol Oncol.* 2014 Dec 5;7:85. PMID: 25476752.

Perwitasari O, Johnson S, Yan X, et al. Antiviral efficacy of verdinexor in vivo in two animal models of influenza A virus infection. *PLoS One.* 2016 Nov 28;11(11):e0167221. PMID: 27893810.

Breit MN, Kisseberth WC, Bear MD, et al. Biologic activity of the novel orally bioavailable selective inhibitor of nuclear export (SINE) KPT-335 against canine melanoma cell lines. *BMC Vet Res.* 2014 Jul 15;10:160. PMID: 25022346.

Perwitasari O, Johnson S, Yan X, et al. Verdinexor, a novel selective inhibitor of nuclear export, reduces influenza A virus replication in vitro and in vivo. *J Virol.* 2014 Sept 1;88(17):10228-10243. PMID: 24965445.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.