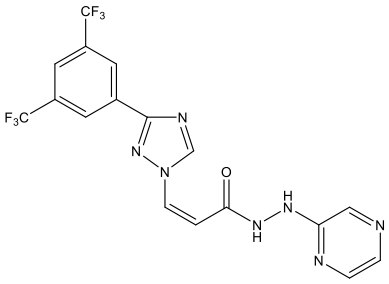
Catalog # 10-4011
Selinexor

CAS# 1393477-72-9

(Z)-3-[3-[3,5-Bis(trifluoromethyl)phenyl]-1,2,4-triazol-1-yl]-N'-pyrazin-2-ylprop-2-enehydrazide; KPT-330

Lot # FBS2040



Selinexor is a potent inhibitor of the nuclear export receptor, chromosome region maintenance 1 (CRM1; Exportin-1 (XPO1)). It exhibited potent growth suppression in various T-cell acute lymphoblastic leukemia (T-ALL) cells (IC_{50}'s = 34-203 nM)[1] and pancreatic cancer cells (IC_{50} ~ 150 nM)[2]. Selinexor is being investigated as a possible chemotherapeutic in treating multiple types of cancer.[3-8] Currently in clinical trials.

1) Etchin *et al.* (2013), *KPT-330 inhibitor of CRM1 (XPO1)-mediated nuclear export has selective anti-leukaemic activity in preclinical models of T-ALL and AML;* Br. J. Haematol. **161** 117
2) Azmi *et al.* (2013), *Selective Inhibitors of Nuclear Export Block Pancreatic Cancer Cell Proliferation and Reduce Tumor Growth in Mice;* Gastroenterology **144** 447
3) Desisto *et al.* (2019), *Exportin 1 inhibition induces nerve growth factor receptor expression to inhibit the NF-kB pathway in preclinical models of pediatric high-grade glioma;* Mol. Cancer Ther. Epub ahead of print
4) Aboukameel *et al.* (2018), *Down-regulation of AR splice variants through XPO1 suppression contributes to the inhibition of prostate cancer progression;* Oncotarget **9** 35327
5) Baek *et al.* (2018), *XPO1 inhibition by selinexor induces potent cytotoxicity against high grade bladder malignancies;* Oncotarget **9** 34567
6) Wahba *et al.* (2018), The *XPO1 Inhibitor Selinexor Inhibits Translation and Enhances the Radiosensitivity of Glioblastoma Cells Grown In Vitro and In Vivo;* Mol. Cancer Ther. **17** 1717
7) Arango *et al.* (2017), *Selinexor (KPT-330) demonstrates anti-tumor efficacy in preclinical models of triple-negative breast cancer;* Breast Cancer Res. **19** 93
8) Conforti *et al.* (2017), *Therapeutic Effects of XPO1 Inhibition in Thymic Epithelial Tumors;* Cancer Res. **77** 5614

PHYSICAL DATA

Molecular Weight:	443.31
Molecular Formula:	$C_{17}H_{11}F_6N_7O$
Purity:	>98% TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml); ethanol (>25 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20ºC for up to 1 year from the date of purchase. Store solutions at -20ºC for up to 2 months.

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