

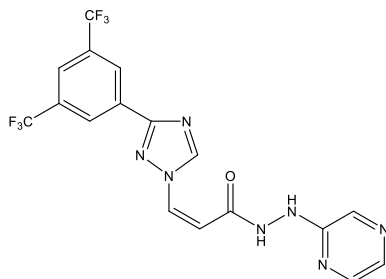
**Catalog # 10-4011**

**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 # FBS3052



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<sub>50</sub>'s = 34-203 nM)<sup>1</sup> and pancreatic cancer cells (IC<sub>50</sub> ~ 150 nM)<sup>2</sup>. Selinexor is being investigated as a possible chemotherapeutic in treating multiple types of cancer.<sup>3-8</sup> 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-κB 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<sub>17</sub>H<sub>11</sub>F<sub>6</sub>N<sub>7</sub>O  
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 -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 2 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**