

## **Data Sheet**

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 Product Name
 :
 KL-11743

 Cat. No.
 :
 PC-72556

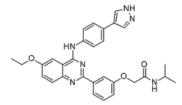
 CAS No.
 :
 1369452-53-8

 Molecular Formula
 :
 C<sub>30</sub>H<sub>30</sub>N<sub>6</sub>O<sub>3</sub>

 Molecular Weight
 :
 522.609

Target : Glucose Transporter (GLUT)

**Solubility** : 10 mM in DMSO



## **Biological Activity**

KL-11743 (KL11743) is a potent, selective, orally bioavailable inhibitor of **class I glucose transporters (GLUT)** with IC50 of 115/137/90/68 nM for GLUT1/2/3/4, respectively.

KL-11743 demonstrated no inhibitory activity at 10 uM against hexokinase.

KL-11743 inhibited both glucose consumption, lactate secretion, and 2DG transport in HT-1080 fibrosarcoma cells, with IC50 values of 228, 234, and 87 nM, respectively, and fully inhibited glycolytic ATP production in oligomycin-treated cells with an IC50 of 127 nM.

KL-11743 had minimal off-target activity in a panel of 85 high-liability receptors and transporters and 411 human kinases. KL-11743 dose-dependently inhibits HT-1080 cells growth (IC50=667 nM), suppresses glucose metabolism and induces redox and energetic stress.

KL-11743 inhibits the growth of TCA cycle-deficient cancers in vitro and in vivo.

## References

Kellen Olszewski, et al. Cell Chem Biol. 2021 Oct 22;S2451-9456(21)00441-4.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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