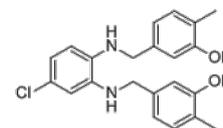


Product Name : DRB18
Cat. No. : PC-72387
CAS No. : 2863686-81-9
Molecular Formula : C₂₂H₂₃ClN₂O₂
Molecular Weight : 382.888
Target : Glucose Transporter (GLUT)
Solubility : 10 mM in DMSO



Biological Activity

DRB18 (DRB-18) is a potent, pan-class I glucose transporter (**GLUT**) inhibitor, reduces glucose uptake in HEK293 cell lines expressed single GLUT1-4 with IC₅₀ of 0.9-8.8 uM.

DRB18 reduced cell viability in a dose-dependent manner in cancer cell lines (A549 IC₅₀=3.5 uM, HeLa IC₅₀=1.3 uM), also exhibited IC₅₀ values < 10 μM in all nine melanoma cell lines.

DRB18 rapidly and potently inhibited glucose transport and glucose metabolism, inhibited multiple metabolic pathways associated with glucose metabolism in A549 cells.

DRB18 caused G1/S phase arrest and increased oxidative stress in A549 cells.

DRB18 (10mg/kg) inhibited the growth of A549 tumors xenografted in nude mice.

References

Shriwas P, et al. *Cancer Metab.* 2021 Mar 26;9(1):14.

Roberts DA, et al. *Bioorg Med Chem Lett.* 2020 Sep 15; 30(18):127406.

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

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