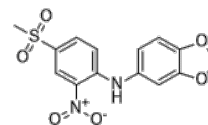


Product Name : MSNBA
Cat. No. : PC-25569
CAS No. : 852702-51-3
Molecular Formula : C₁₄H₁₂N₂O₆S
Molecular Weight : 336.32
Target : Glucose Transporter (GLUT)
Solubility : 10 mM in DMSO



Biological Activity

MSNBA is a specific inhibitor of glucose transporter GLUT5, competitively inhibits GLUT5 fructose uptake with K_i of 3.2 μM, inhibits GLUT5 fructose transport in proteoliposomes with IC₅₀ of 0.1 μM.

MSNBA does not affect the fructose transport of human GLUT2 or the glucose transport of human GLUT1-4 or bacterial GlcPse.

MSNBA potently inhibits fructose uptake by GLUT5 in the human breast adenocarcinoma cell line MCF7 (IC₅₀=5.8 μM).

References

George Thompson AM, et al. Sci Rep. 2016 Apr 14;6:24240.

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

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