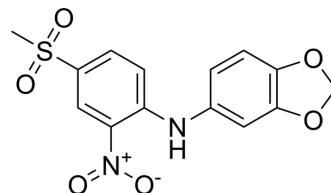


## MSNBA

Cat. No.:	HY-W179181
CAS No.:	852702-51-3
Molecular Formula:	C <sub>14</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub> S
Molecular Weight:	336.32
Target:	GLUT
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (297.34 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9734 mL	14.8668 mL	29.7336 mL
	5 mM	0.5947 mL	2.9734 mL	5.9467 mL
	10 mM	0.2973 mL	1.4867 mL	2.9734 mL

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

MSNBA is a specific inhibitor of GLUT5 fructose transport in proteoliposomes. MSNBA competitively inhibits GLUT5 fructose uptake with a K<sub>i</sub> of 3.2±0.4 μM in MCF7 cells<sup>[1]</sup>.

## REFERENCES

[1]. George Thompson AM, et al. Discovery of a specific inhibitor of human GLUT5 by virtual screening and in vitro transport evaluation. Sci Rep. 2016 Apr 14;6:24240.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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