Acetohexamide

Cat. No.: HY-B0881

CAS No.: 968-81-0

Molecular Formula: $C_{15}H_{20}N_2O_4S$

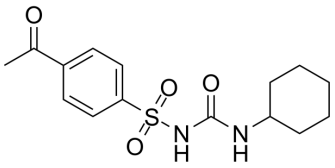
Molecular Weight: 324.4

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (77.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0826 mL	15.4131 mL	30.8261 mL
	5 mM	0.6165 mL	3.0826 mL	6.1652 mL
	10 mM	0.3083 mL	1.5413 mL	3.0826 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (7.71 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Acetohexamide is a first-generation sulfonylurea agent used in research related to type 2 diabetes; it stimulates the pancreas to secrete insulin.Acetohexamide inhibits ATP-sensitive potassium channels in the β cells of the pancreas[1].

REFERENCES

[1]. White JA, et al. Nonhypoglycemic drug reactions of agents used to treat diabetes. Endocrinol Metab Clin North Am. 2000 Dec;29(4):803-11.

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

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