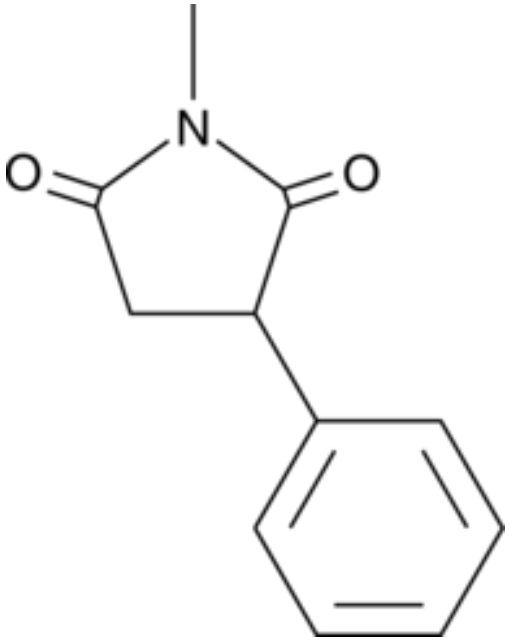
Product Data Sheet

Product Name: Phensuximide
Cat. No.: GC45547

Chemical Properties

Cas. No.	86-34-0		
SMILES	O=C(N1C)C(C2=CC=CC=C2)CC1=O		
Formula	C11H11NO2	M.Wt	189.2
Solubility	DMF: 1mg/mL,DMSO: 15mg/mL,DMSO:PBS (pH 7.2) (1:5): 0.16mg/mL,Ethanol: 10mg/mL	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Phensuximide is an anticonvulsant.1 It inhibits seizures induced by maximal electroshock (MES) and pentylenetetrazole in mice (ED50s = 112 and 50 mg/kg, respectively). Phensuximide (1.25 mmol/kg,

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i.p.) induces proteinuria and hematuria in rats.2 Formulations containing phensuximide have been used in the treatment of petit mal seizures.

References

1. Kornet, M.J., Crider, A.M., and Magarian, E.O. Potential long-acting anticonvulsants. 1. Synthesis and activity of succinimides containing an alkylating group at the 2 position. J. Med. Chem. 20(3), 405-409 (1977).
2. Rankin, G.O., Cressey-Veneziano, K., Wang, R.T., et al. Urinary tract effects of phensuximide in the Sprague-Dawley and Fischer 344 rat. J. Appl. Toxicol. 6(5), 349-356 (1986).

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