

Product Data Sheet

Product Name: Methycarbamol

Cat. No.: GC16339

Chemical Properties

Cas. No. 532-03-6

Chemical Name [2-hydroxy-3-(2-methoxyphenoxy)propyl] carbamate

SMILES COC1=CC=CC=C1OCC(COC(=O)N)O

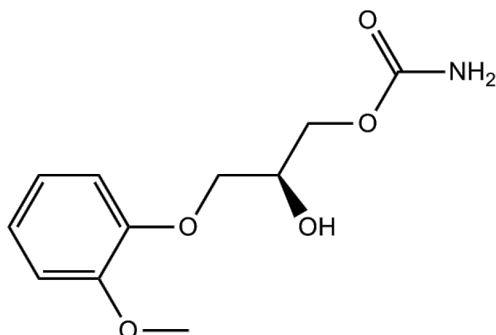
Formula $C_{11}H_{15}NO_5$ M.Wt 241.24

Solubility $\geq 15.65\text{mg/mL}$ in DMSO 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

Methocarbamol is a central muscle relaxant used to treat skeletal muscle spasms. Target: Carbonic Anhydrase. Methocarbamol is the carbamate of guaifenesin, but does not produce guaifenesin as a metabolite, because the carbamate bond is not hydrolyzed metabolically; metabolism is by Phase I ring hydroxylation and O-demethylation, followed by Phase II conjugation. All the major metabolites are unhydrolyzed carbamates. Methocarbamol is used as an adjunct in the symptomatic treatment of musculoskeletal conditions associated with painful muscle spasm [1, 2].

References:

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

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- [1]. Bruce, R.B., L.B. Turnbull, and J.H. Newman, Metabolism of methocarbamol in the rat, dog, and human. J Pharm Sci, 1971. 60(1): p. 104-6.
- [2]. Sica, D.A., et al., Pharmacokinetics and protein binding of methocarbamol in renal insufficiency and normals. Eur J Clin Pharmacol, 1990. 39(2): p. 193-4.

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