

Product Data Sheet

Product Name: Metanephrine

Cat. No.: GC44168

Chemical Properties

Cas. No. 5001-33-2

Chemical Name 4-hydroxy-3-methoxy- α -[(methylamino)methyl]-benzenemethanol

SMILES COC1=C(O)C=CC(C(O)CNC)=C1

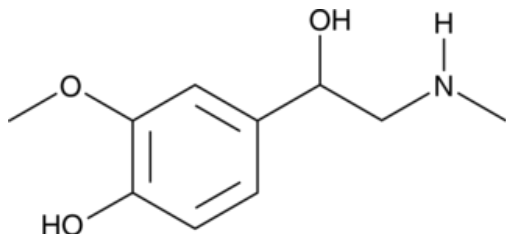
Formula $C_{10}H_{15}NO_3$ M.Wt 197.2

Solubility 20mg/mL in DMSO, 20mg/mL in DMF, 20mg/mL in Ethanol Storage Store at -20°C, protect from light

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

Metanephrine is a metabolite of epinephrine produced by the action of catechol-O-methyl transferase on epinephrine. [1] Determination of plasma or urinary metanephrine is considered the principal test for the clinical diagnosis of pheochromocytoma, an adrenal medullary neuroendocrine tumor.[2]

Reference:

[1]. Kopin, I.J., Axelrod, J., and Gordon, E. The metabolic fate of H³-epinephrine and C¹⁴-metanephrine in the rat. The Journal of Biological Chemistry 236, 2109-2136 (1961).

[2]. Wolthers, B.G., Kema, I.P., Volmer, M., et al. Evaluation of urinary metanephrine and normetanephrine enzyme immunoassay (ELISA) kits by comparison with isotope dilution mass

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

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spectrometry. Clinical Chemistry 43, 114-120 (1997).

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