

Product Data Sheet

Product Name: Norepinephrine (Adrenor)

Cat. No.: GC30744

Chemical Properties

Cas. No. 51-41-2

SMILES OC1=CC=C([C@@H](O)CN)C=C1O

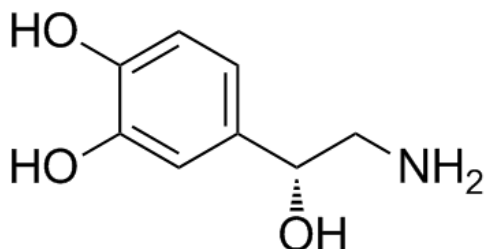
Formula $C_8H_{11}NO_3$ M.Wt 169.18

Solubility DMSO: 5 mg/mL (29.55 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, protect from light, stored under nitrogen

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



Protocol

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

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Cell experiment: Subcutaneous preadipocytes derived from a 38-year old non-diabetic female donor are immortalized with TERT and HPV E6/E7. For the current studies, a stable diploid clone (referred to as clone B) with consistent differentiation capacity is isolated by ring cloning. Cells are grown in preadipocyte PGM2 media. Once cells are confluent, differentiation is induced by incubation in differentiation media consisting of dexamethasone, IBMX, indomethacin, and additional insulin. Cells are differentiated for 10 days. Prior to treatment, media is replaced with PGM2 media for one day and then switched to serum-free media overnight for treatments. Adipocytes are treated for 6 hours with vehicle, Norepinephrine (NE, 10 μ M), CGP (10 nM), or Norepinephrine (NE) and CGP[2].

References:

- [1]. MacGregor DA, et al. Relative efficacy and potency of beta-adrenoceptor agonists for generating cAMP in human lymphocytes. *Chest*. 1996 Jan;109(1):194-200.
- [2]. Littlejohn NK, et al. Suppression of Resting Metabolism by the Angiotensin AT2 Receptor. *Cell Rep*. 2016 Aug 9;16(6):1548-60.

Background

Norepinephrine is a peripheral vasoconstrictor by acting on alpha-adrenergic receptors.

- [1]. Myburgh J, et al. Norepinephrine: more of a neurohormone than a vasopressor. *Crit Care*. 2010;14(5):196.

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