

Product Data Sheet

Product Name: NH-3
Cat. No.: GC63595

Chemical Properties

Cas. No. 447415-26-1

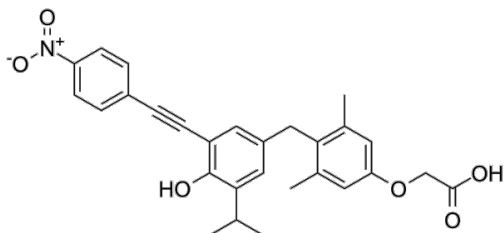
Formula $C_{28}H_{27}NO_6$ M.Wt 473.52

Solubility DMSO : 100 mg/mL (211.18 mM; Storage Store at -20°C
Need ultrasonic)

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

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

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NH-3 is an orally active, reversible thyroid hormone receptor (THR) antagonist with an IC₅₀ of 55 nM. NH-3, a derivative of the selective thyromimetic GC-1, inhibits binding of thyroid hormones to their receptor and that inhibits cofactor recruitment[1][2][3].

NH3 (46.2-27,700 nmol/kg/day; 7 days) decreases heart rate modestly starting at 46.2 nmol/kg/day, but the effect was lost at >2920 nmol/kg/day. NH3 has no effect on the cholesterol-lowering action of 46.2 nmol/kg/day T3, but it inhibits the tachycardic and TSH suppressant effects up to the 924 nmol/kg/day dose[2].

[1]. Latika Singh, et al. Chasing the Elusive Benzofuran Impurity of the THR Antagonist NH-3: Synthesis, Isotope Labeling, and Biological Activity. J Org Chem. 2016 Mar 4;81(5):1870-6.

[2]. Gary J Grover, et al. Pharmacological profile of the thyroid hormone receptor antagonist NH3 in rats. J Pharmacol Exp Ther. 2007 Jul;322(1):385-90.

[3]. Wayland Lim, et al. A thyroid hormone antagonist that inhibits thyroid hormone action in vivo. J Biol Chem. 2002 Sep 20;277(38):35664-70.

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