
Product Data Sheet

Product Name: Amitriptyline

Cat. No.: GC25060

Chemical Properties

Cas. No. 50-48-6

Formula C₂₀H₂₃N

M.Wt 277.4

Solubility DMSO : 100 mg/mL (360.49 mM; Need ultrasonic) 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

Amitriptyline (MK-230, N-750, Ro41575) is a tricyclic antidepressant (TCA) with analgesic properties, widely used to treat depression and neuropathic pain. Amitriptyline is an inhibitor of both serotonin transporter (SERT) and norepinephrine transporter (NET) with K_i of 3.45 nM and 13.3 nM, respectively. Amitriptyline also inhibits histamine receptor H₁, histamine receptor H₄, 5-HT₂ and sigma 1 receptor with K_i of 0.5 nM, 7.31 nM, 235 nM and 287 nM, respectively. This product is a waxy solid.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA