

Product Data Sheet

Product Name: Salbutamol

Cat. No.: GC71682

Chemical Properties

Cas. No. 18559-94-9

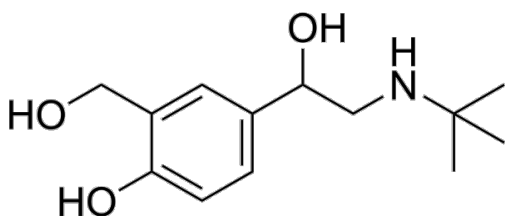
Formula $C_{13}H_{21}NO_3$ M.Wt 239.31

Solubility DMSO : 100 mg/mL (417.87 mM; Storage -20°C
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

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

Salbutamol (Albuterol) is a short-acting beta-2 adrenergic receptor agonist with oral activity. Salbutamol promotes tumorigenesis of gastric cancer cells through the β_2 -AR/ERK/EMT pathway. Salbutamol is used to study bronchospasms caused by asthma and chronic obstructive pulmonary disease (COPD).

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

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Salbutamol (16 μ M, 24 h) significantly induces EMT, migration and invasion by ERK (extracellular signal-regulated kinase) phosphorylation in gastric cancer cells^[1].

Salbutamol (5 mg/kg/day, orally, for 2 consecutive weeks) can increase tumor growth in nude mice with gastric cancer^[1].

Salbutamol (6 mg/kg orally for 4 weeks) has a significant protective effect against STZ -induced skeletal muscle atrophy in diabetic rats^[2].

References:

[1]. Lu Y, et al. Chronic stress model simulated by salbutamol promotes tumorigenesis of gastric cancer cells through β 2-AR/ERK/EMT pathway. J Cancer. 2022 Jan 1;13(2):401-412.

[2]. Hong YP, et al. Effects of Castanospermine on Inflammatory Response in a Rat Model of Experimental Severe Acute Pancreatitis. Arch Med Res. 2016 Aug;47(6):436-445.

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