
Product Data Sheet

Product Name: HOKU-81
Cat. No.: GC12243

Chemical Properties

Cas. No. 58020-43-2

Chemical Name 4-[2-(tert-butylamino)-1-hydroxyethyl]-3-chlorophenol

SMILES CC(C)(C)NCC(C1=C(C=C(C=C1)O)Cl)O

Formula $C_{12}H_{18}ClNO_2$ M.Wt 243.73

Solubility DMSO : 50 mg/mL (205.15 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

HOKU-81, a new bronchodilator, is one of the metabolites of tulobuterol. IC50 Value: Target: Adrenergic Receptor Effects of HOKU-81 on isolated trachea and atria of guinea pigs were compared with those of various bronchodilators. HOKU-81 appears to be a potent and selective beta 2-stimulant with a slight inotropic action. HOKU-81 was approximately 8 times more potent than tulobuterol, approximately twice as potent as salbutamol, and approximately as potent as isoprenaline in relaxing effect on the isolated tracheal smooth muscle preparation of guinea pigs. This effect of HOKU-81 seems to be due to direct action on the adrenergic beta-receptor.

References:

[1]. Kubo S, Matsubara I, Yamazaki M et al. Pharmacological studies of 1-(2-chloro-4-hydroxyphenyl)-2-t-butylaminoethanol (HOKU-81), a new bronchodilator. 1st Communication: Bronchodilator and cardiovascular actions. *Arzneimittelforschung*. 1980;30(8):1272-8.

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

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[2]. Gomi Y, Shirahase H, Funato H. Effects of 1-(2-chloro-4-hydroxyphenyl)-t-butylaminoethanol (HOKU-81), a new bronchodilator, on isolated trachea and atria of guinea pig. Jpn J Pharmacol. 1979 Aug;29(4):515-24.

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