

Datasheet

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A DRUG SCREENING EXPERT

Product Name : HOKU-81
Catalog Number : T15498
CAS Number : 58020-43-2
Molecular Formula : C12H18ClNO2
Molecular Weight : 243.73

Description: HOKU-81 is a new bronchodilator and is one of the metabolites of tulobuterol.

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

| | | |
|-------------------|--|---------------------------------------|
| Solubility | DMSO | 50 mg/mL (205.15 mM), Need ultrasonic |
| | (< 1 mg/ml refers to the product slightly soluble or insoluble) | |

| | | |
|------------------------|--------|--|
| Receptor (IC50) | Others | |
|------------------------|--------|--|

In vitro Activity

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. HOKU-81 appears to be a potent and selective beta 2-stimulant with a slight inotropic action. Adrenergic Receptor Effects of HOKU-81 on isolated trachea and atria of guinea pigs were compared with those of various bronchodilators. This effect of HOKU-81 seems to be due to direct action on the adrenergic beta-receptor.

Reference

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.
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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