
Product Data Sheet

Product Name: KY-556 (N556)
 Cat. No.: GC31971

Chemical Properties

Cas. No. 110816-78-9

N[C@@H]

SMILES (CCCCN)C(OC(COC1=C2C(C=C(C(OCC)=O)OC2=CC=C1)=O)COC3=C4C(C=C(C(OCC)=O)OC4=CC=C3)=O)=O.
 [H]Cl.[H]Cl

Formula C₃₃H₃₈Cl₂N₂O₁₂

M.Wt 725.57

Solubility DMSO : 83.33 mg/mL (114.85 mM; Need ultrasonic)

Storage Store at -20°C

General 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

KY-556 is a promising and orally-active pro-drug of disodium cromoglycate (DSCG) against allergic diseases.

The oral anti-allergic effect of KY-556 (N-556) is investigated. N-556 (10-100 mg/kg, p.o.) inhibits dose-dependently the 48-hr homologous passive cutaneous anaphylaxis (PCA) in rats, and the duration of action is longer than that of intravenous Disodium cromoglycate (DSCG). N-556 (20 and 100 mg/kg once a day for 20 consecutive days, p.o.) tends to inhibit the histamine release from actively sensitized rat lung fragments. N-556 (100 mg/kg, p.o.) shows the prolongation of survival time in the rat systemic anaphylaxis. N-556 (100 mg/kg, p.o.) significantly inhibits the increased airway resistance in experimental asthma in rats[1].

[1]. Nakamura S, et al. Effects of N-556 on experimental allergy models in rats. Arerugi. 1990 Dec;39(12):1621-8.

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

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