Bentiromide

Cat. No.: HY-B1493

CAS No.: 37106-97-1

Molecular Formula: $C_{23}H_{20}N_2O_5$

Molecular Weight: 404.42

Target: Others

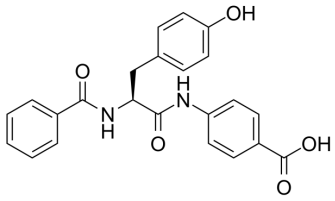
Pathway: Others

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (618.17 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4727 mL	12.3634 mL	24.7268 mL
5 mM	0.4945 mL	2.4727 mL	4.9454 mL
10 mM	0.2473 mL	1.2363 mL	2.4727 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bentiromide is a peptide that is broken down in the pancreas by chymotrypsin. The bentiromide test is an excellent means of confirming the diagnosis of pancreatic exocrine insufficiency by outpatient test of chymotrypsin function[1].

REFERENCES

[1]. Toskes PP, et al. The bentiromide test for pancreatic exocrine insufficiency. Pharmacotherapy. 1984 Mar-Apr;4(2):74-80.

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