

Product Name: t-TUCB

Catalog No.: 6757

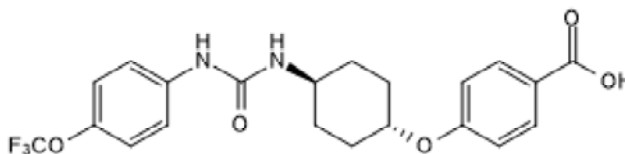
Batch No.: 1

CAS Number: 948304-40-3

IUPAC Name: 4-[[*trans*-4-[[[4-(Trifluoromethoxy)phenyl]amino]carbonyl]amino]cyclohexyl]oxy]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₁F₃N₂O₅
Batch Molecular Weight: 438.4
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 57.53 | 4.83 | 6.39 |
| Found | 57.67 | 4.83 | 6.39 |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent soluble epoxide hydrolase (sEH) Inhibitor (IC₅₀ = 0.9 nM). Enhances hepatic eNOS phosphorylation and NO release. Exhibits antihypertensive and cardioprotective actions in cirrhotic rat models. Suppress the activation of HSCs and reduce hepatic fibrosis through inhibition of NF-κB/IκBα signaling. Anti-inflammatory and antinociceptive.

Physical and Chemical Properties:

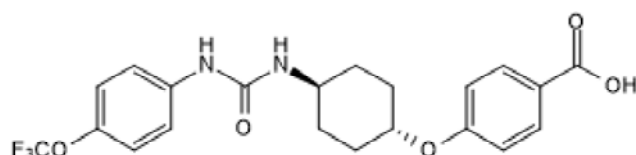
Batch Molecular Formula: C₂₁H₂₁F₃N₂O₅

Batch Molecular Weight: 438.4

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Deng et al (2017) Inhibition of soluble epoxide hydrolase lowers portal hypertension in cirrhotic rats by ameliorating endothelial dysfunction and liver fibrosis. *Prostaglandins Other Lipid Mediat.* **131** 67. PMID: 28822809 .

Hwang et al (2007) Orally bioavailable potent soluble epoxide hydrolase inhibitors. *J.Med.Chem.* **50** 3825. PMID: 17616115.

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