

Catalog	Unit
TBI1098 - 10MG	10 mg
TBI1098 - 50MG	50 mg

Product Details

Formal Name: N-(1-Benzo[b]thien-2-ylethyl)-N-hydroxyurea

Molecular Formula: C₁₁H₁₂N₂O₂S

Formula Weight: 236.29

CAS Number: 111406-87-2

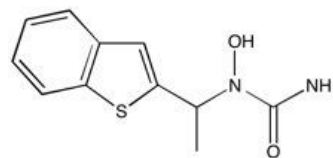
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 25 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

5-Lipoxygenase inhibitor

Functions

Zileuton (111406-87-2) is a reversible inhibitor (IC₅₀ = 500nM RBL-1 cells, 300nM rat PMNL cells) of 5-Lipoxygenase (5-LO). It also inhibited leukotriene B₄ biosynthesis (IC₅₀'s = 400nM rat PMNL, 400nM human PMNL and 900nM human whole blood). Zileuton suppressed prostaglandin biosynthesis via interference with arachidonic acid release in macrophages independent of 5-LO inhibition (IC₅₀ = 13 μM PGE₂ inhibition in LPS-stimulated whole blood). Zileuton was approved by the FDA in 1997 for the treatment of asthma (ZYFLO).

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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