
Catalog	Unit
TBI2477-5MG	5 mg
TBI2477-25MG	25 mg

Product Details

Formal Name: 2-Acetyl-4-tetrahydroxybutyl Imidazole

Alternate Names: 1-[5-[(1R,2S,3R)-1,2,3,4-tetrahydroxybutyl]-1H-imidazol-2-yl]-ethanone

Molecular Formula: C₉H₁₄N₂O₅

Formula Weight: 230.22

CAS Number: 94944-70-4

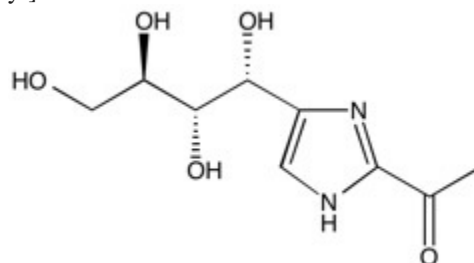
Purity: >98%

Formulation: powder

Solubility: Soluble in Water (up to 10 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

S1P lyase inhibitor; Immunomodulator

Functions

THI was identified as a biologically active impurity in caramel food coloring. It is a potent inhibitor of sphingosine-1-phosphate (S1P) lyase. It disrupts lymphocyte egress from lymphoid tissue by interfering with S1P gradients. The novel immunomodulatory activity of THI and its biochemical mechanism may represent a new target for the development of new generation of immunosuppressants.

Application Procedures

First dissolved in Water (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in distilled water may be stored at -20°C for up to 3 months.

For research use only.