Product Name: TBB
CAS Number: 17374-26-4
IUPAC Name: 4,5,6,7-Tetrahydrobenzotriazole

1. PHYSICAL AND CHEMICAL PROPERTIES
   Batch Molecular Formula: C₆HBr₄N₃
   Batch Molecular Weight: 434.71
   Physical Appearance: Off-white solid
   Solubility: DMSO to 100 mM ethanol to 15 mM
   Storage: Store at +4°C
   Batch Molecular Structure:
   ![Molecular Structure]

2. ANALYTICAL DATA
   TLC: Rᵣ = 0.18 (Chloroform:Methanol [9:1])
   Melting Point: Between 262 - 264°C
   HPLC: Shows 99.1% purity
   Mass Spectrum: Consistent with structure
   Microanalysis:
   Carbon  Hydrogen  Nitrogen
   Theoretical  16.58  0.23  9.67
   Found  16.61  0.45  9.47

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

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Description:
A cell-permeable, selective inhibitor of casein kinase-2 (CK2) (IC$_{50}$ = 0.9 and 1.6 μM for rat liver and human recombinant CK2 respectively). Exhibits modest discrimination between CK2 subunits, with K$_{i}$ values ranging from 80 nM to 210 nM. Acts in an ATP/GTP-competitive manner and displays one to two orders of magnitude selectivity over a panel of 33 protein kinases.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{9}$H$_{6}$Br$_{4}$N$_{3}$
Batch Molecular Weight: 434.71
Physical Appearance: Off-white solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 15 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:
