

TBB

4,5,6,7-Tetrabromobenzotriazole

Size: 10 mg
M.W.=434.71
Batch No.: 1A/20050309



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This product is for laboratory research ONLY and not for diagnostic use

Description:

A cell-permeable, selective inhibitor of casein kinase-2 (CK2) (IC₅₀ = 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: C₆HBr₄N₃
 Batch Molecular Weight: 434.71
 CAS Number: [17374-26-4]
 Physical Appearance: White solid
 Batch Molecular Structure:



Solubility: 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 stored on the same day.

References:

- Sarno et al** (2001) Selectivity of 4,5,6,7-tetrabromobenzotriazole, an ATP site-directed inhibitor of protein kinase CK2 ('casein kinase-2'). *FEBS Lett.* **496** 44.
- Pagano et al** (2004) Optimization of protein kinase CK2 inhibitors derived from 4,5,6,7-tetrabromobenzimidazole. *J.Med.Chem.* **47** 6239.
- Zien et al** (2005) Tetrabromobenzotriazole (TBBt) and tetrabromobenzimidazole (TBBz) as selective inhibitors of protein kinase CK2: evaluation of their effects on cells and different molecular forms of human CK2. *Biochim.Biophys.Acta.* **1754** 271.

Storage: Upon arrival store this product at 4 °C. For long term, store the product at -20 °C. Product shipped at ambient temperature.