Product Data Sheet

Chemical Properties

Product Name: TBB

Cas No.: 17374-26-4

M.Wt: 434.71

Formula: C6HBr4N3

Synonyms: NSC 231634; TBB (enzyme inhibitor); 1H-Benzotriazole, 4,5,6,7-tetrabromo-

Chemical Name: 4,5,6,7-tetrabromo-2H-benzotriazole

Canonical SMILES: C1(=C(C2=NNN=C2C(=C1Br)Br)Br)Br

Solubility: \( \geq 159.2 \text{mg/mL} \) in DMSO

Storage: Store at -20°C

General tips: For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shopping Condition: Evaluation sample solution: ship with blue ice

Biological Activity

Targets: PI3K/Akt/mTOR Signaling

Pathways: CK2

Description:

TBB is a highly selective, ATP/GTP-competitive inhibitor of casein kinase-2 (CK2) (IC50 = 0.9 and 1.6 μM for rat liver and human recombinant CK2 respectively). TBB exhibits modest discrimination between CK2 subunits, with Ki values ranging from 80 nM to 210 nM. TBB acts in an ATP/GTP-competitive manner and displays one to two orders of magnitude selectivity over a panel of 33 protein kinases. The effect of TBB on PC-3 human prostate cancer cell viability
depends on the time schedule of administration.

Reference:

**Caution**

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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