

Certificate of Analysis

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Product Name: TBCA

Catalog No.: 2825

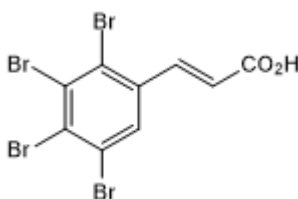
Batch No.: 1

CAS Number: 934358-00-6

IUPAC Name: (2E)-3-(2,3,4,5-Tetrabromophenyl)-2-propenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₄Br₄O₂
Batch Molecular Weight: 463.74
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.37 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	23.31	0.87	
Found	23.21	0.86	

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

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IUPAC Name: (2E)-3-(2,3,4,5-Tetrabromophenyl)-2-propenoic acid

Description:

Selective CK2 inhibitor (IC₅₀ = 110 nM). Exhibits selectivity for CK2 over CK1, DYRK1A and a panel of 27 other kinases. Reduces viability of Jurkat cells in vitro.

Physical and Chemical Properties:

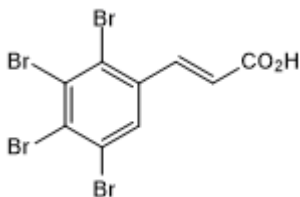
Batch Molecular Formula: C₉H₄Br₄O₂

Batch Molecular Weight: 463.74

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 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:

Pagano et al (2007) Tetrabromocinnamic acid (TBCA) and related compounds represent a new class of specific protein kinase CK2 inhibitors. *Chembiochem.* **8** 129. PMID: 17133643.

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