

Certificate of Analysis

Product Name: ABT

Catalog No.: 5038

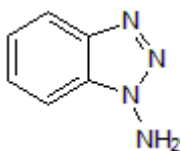
Batch No.: 1

CAS Number: 1614-12-6

IUPAC Name: 1H-Benzotriazol-1-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₆N₄
Batch Molecular Weight: 134.14
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: At 843°C
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.72	4.51	41.77
Found	53.62	4.54	42.1

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

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CAS Number: 1614-12-6

IUPAC Name: 1H-Benzotriazol-1-amine

Description:

Cytochrome P450 inhibitor. Inhibits synthesis of the eicosanoid 20-hydroxyeicosatetraenoic acid (20-HETE). Reduces intimal hyperplasia and vascular remodeling following endothelial injury in rat carotid arteries.

Physical and Chemical Properties:

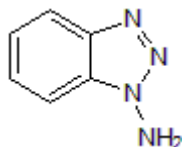
Batch Molecular Formula: C₆H₆N₄

Batch Molecular Weight: 134.14

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM
ethanol 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:

Mathews et al (1985) Inactivation of rabbit pulmonary cytochrome P-450 in microsomes and isolated perfused lungs by the suicide substrate 1-aminobenzotriazole. *J.Pharmacol.Exp.Ther.* **235** 186. PMID: 4045721.

Orozco et al (2013) 20-hydroxyeicosatetraenoic acid inhibition attenuates balloon injury-induced neointima formation and vascular remodeling in rat carotid arteries. *J.Pharmacol.Exp.Ther.* **346** 67. PMID: 23658377.

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