

## Certificate of Analysis

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**Product Name:** B-HT 933 dihydrochloride

**Catalog No.:** 2758

**Batch No.:** 4

CAS Number: 36067-72-8

IUPAC Name: 6-Ethyl-5,6,7,8-tetrahydro-4*H*-oxazolo[4,5-*d*]azepin-2-amine dihydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>9</sub>H<sub>15</sub>N<sub>3</sub>O.2HCl.¾H<sub>2</sub>O

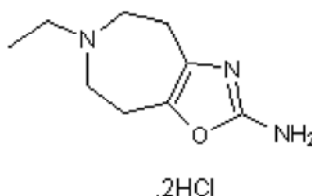
**Batch Molecular Weight:** 267.67

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	40.39	6.97	15.7
Found	40.62	6.54	15.92

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

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IUPAC Name: 6-Ethyl-5,6,7,8-tetrahydro-4*H*-oxazolo[4,5-*d*]azepin-2-amine dihydrochloride

**Description:**

Selective  $\alpha_2$ -adrenoceptor agonist. Exhibits greater than 300-fold selectivity for the  $\alpha_2$ -adrenoceptor over the  $\alpha_1$ -adrenoceptor.

**Physical and Chemical Properties:**

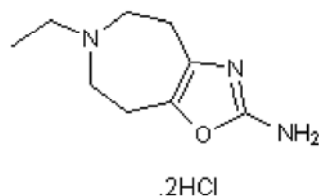
Batch Molecular Formula: C<sub>9</sub>H<sub>15</sub>N<sub>3</sub>O.2HCl.¾H<sub>2</sub>O

Batch Molecular Weight: 267.67

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 50 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:**

**Parkinson and Hughes** (1995) The mechanism of action of  $\alpha_2$ -adrenoceptors in human isolated subcutaneous resistance arteries. *Br.J.Pharmacol.* **115** 1463. PMID: 8564206.

**Bill et al** (1989) The thermogenic actions of  $\alpha_2$ -adrenoceptor agonists in reserpinized mice are mediated via a central postsynaptic  $\alpha_2$ -adrenoceptor mechanism. *Br.J.Pharmacol.* **96** 133. PMID: 2564288.

**Kobinger and Pichler** (1977) Pharmacological characterization of B-HT 933 (2-amino-6-ethyl-4,5,7,8-tetrahydro-6*H*-oxazolo-[5,4-*d*]azepindihydrochloride) as a hypotensive agent of the "clonidine-type". *Naunyn-Schmied.Arch.Pharmacol.* **300** 39.

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