

**Product Name:** UK 14,304 tartrate

**Catalog No.:** 2466

**Batch No.:** 3

CAS Number: 70359-46-5

IUPAC Name: 5-Bromo-6-(2-imidazolin-2-ylamino)quinoxaline tartrate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>10</sub>BrN<sub>5</sub>·C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>

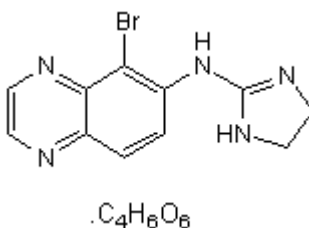
**Batch Molecular Weight:** 442.23

**Physical Appearance:** Tan solid

**Solubility:** water to 50 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.48 (Dichloromethane:Methanol [1:1])

**HPLC:** Shows 99.8% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	40.74	3.65	15.84
Found	40.93	3.72	15.67

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

**Product Name:** UK 14,304 tartrate

**Catalog No.:** 2466

**Batch No.:** 3

CAS Number: 70359-46-5

IUPAC Name: 5-Bromo-6-(2-imidazolin-2-ylamino)quinoxaline tartrate

**Description:**

Water-soluble form of UK 14,304 (Cat. No. 0425). Full  $\alpha_2$  adrenergic agonist. Centrally active following systemic administration in vivo.

**Physical and Chemical Properties:**

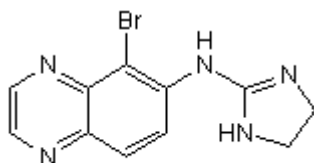
Batch Molecular Formula:  $C_{11}H_{10}BrN_5 \cdot C_4H_6O_6$

Batch Molecular Weight: 442.23

Physical Appearance: Tan solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



$\cdot C_4H_6O_6$

**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water 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:**

**Cambridge** (1981) UK-14,304, a potent and selective  $\alpha_2$ -agonist for the characterisation of  $\alpha_2$ -adrenoceptor subtypes. *Eur.J.Pharmacol.* **72** 413. PMID: 6115759.

**Andorn et al** (1988) Specific [<sup>3</sup>H]UK-14,304 binding in human cortex occurs at multiple high affinity states with  $\alpha_2$ -adrenergic selectivity and different affinities for GTP. *Life Sci.* **43** 1805. PMID: 2904634.

**Macdonald et al** (1997) Gene targeting - homing in on  $\alpha_2$ -adrenoceptor-subtype function. *TIPS* **18** 211. PMID: 9227000.

**Chopin et al** (1999) Effects of  $\alpha_2$ -adrenoceptor agonists and antagonists on circling behavior in rats with unilateral 6-hydroxydopamine lesions of the nigrostriatal pathway. *J.Pharmacol.Exp.Ther.* **288** 798. PMID: 9918591.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956