

## Certificate of Analysis

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**Product Name:** UK 14,304

**Catalog No.:** 0425

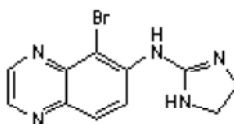
**Batch No.:** 2

CAS Number: 59803-98-4

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>11</sub>H<sub>10</sub>BrN<sub>5</sub>  
**Batch Molecular Weight:** 292.14  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.6 (Dichloromethane:Methanol:Triethylamine [15:4:1])  
**Melting Point:** Between 248 - 249°C  
**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen		
Theoretical	45.23	3.45	23.97	0	0
Found	45.03	3.46	24	0	0

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](http://www.tocris.com/distributors)

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**Description:**

Full  $\alpha_2$  adrenergic agonist. Centrally active following systemic administration in vivo. Available as part of the  $\alpha_2$ -Adrenoceptor Tocriset™ and Mixed Adrenergic Tocriset™. Water-soluble Salt also available.

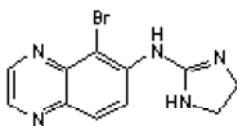
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Batch Molecular Weight: 292.14

Physical Appearance: Yellow solid

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**Storage:** Store at RT

**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:**

**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.

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

**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.

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