

Certificate of Analysis

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Product Name: UK 14,304

Catalog No.: 0425

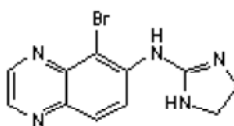
Batch No.: 2

CAS Number: 59803-98-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₀BrN₅
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_f = 0.6 (Dichloromethane:Methanol:Triethylamine [15:4:1])
Melting Point: Between 248 - 249°C
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	45.23	3.45	23.97	0.00
Found	45.03	3.46	24	0.00

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

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CAS Number: 59803-98-4

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

Description:

UK 14,304 is a full α_2 adrenergic agonist. Centrally active following systemic administration in vivo. Water-soluble Salt also available.

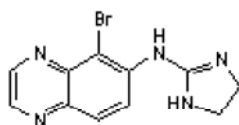
Physical and Chemical Properties:

Batch Molecular Formula: C₁₁H₁₀BrN₅

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Physical Appearance: Yellow solid

Batch Molecular Structure:



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-hydroxyDA lesions of the nigrostriatal pathway. *J.Pharmacol.Exp.Ther.* **288** 798. PMID: 9918591.

Macdonald *et al* (1997) Gene targeting - homing in on α_2 -adrenoceptor-subtype function. *TiPS* **18** 211. PMID: 9227000.

Andorn *et al* (1988) Specific [³H]UK-14,304 binding in human cortex occurs at multiple high affinity states with α_2 -adrenergic selectivity and different affinities for GTP. *Life Sci.* **43** 1805. PMID: 2904634.

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