Certificate of Analysis

Product Name: **3-AQC** **Catalog No.: 0666** **Batch No.: 1**

CAS Number: 201216-42-4

IUPAC Name: 3-(4-Allylpiperazin-1-yl)-2-quinoxalinecarbonitrile maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{17}N_5.C_4H_4O_4$

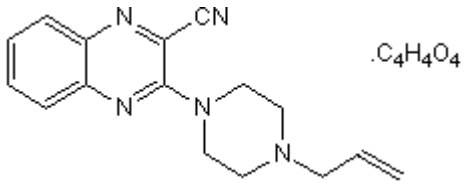
Batch Molecular Weight: 395.42

Physical Appearance: Yellow crystalline solid

Solubility: DMSO to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.75 (Ethyl acetate:Ethanol [19:1])

Melting Point: Between 128 - 130°C

^{1}H NMR: Consistent with structure

Product Name: **3-AQC** **Catalog No.: 0666** **Batch No.: 1**

CAS Number: 201216-42-4

IUPAC Name: 3-(4-Allylpiperazin-1-yl)-2-quinoxalinecarbonitrile maleate

Description:

A competitive 5-HT_3 antagonist, almost 100 times more potent than tropisetron, but with widely differing activity in various tissues.

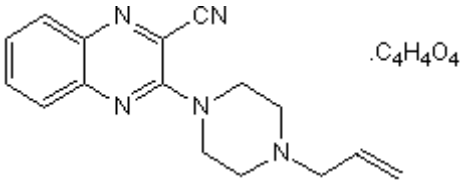
Physical and Chemical Properties:

Batch Molecular Formula: $C_{16}H_{17}N_5.C_4H_4O_4$

Batch Molecular Weight: 395.42

Physical Appearance: Yellow crystalline solid

Batch Molecular Structure:



Storage: Desiccate at -20°C

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:

Monge *et al* (1993) Novel antagonists of 5-HT_3 receptors. Synthesis and biological evaluation of piperazinylquinoxaline derivatives. J.Med.Chem. ***36*** 2745. PMID: 8410988.

Buznikov *et al* (2005) The pre-nervous serotonergic system of developing sea urchin embryos and larvae: pharmacologic and immunocytochemical evidence. Neurochem.Res. ***30*** 825. PMID: 16187217.

Durk *et al* (2005) 5-Hydroxytryptamine modulates cytokine and chemokine production in LPS-primed human monocytes via stimulation of different 5-HTR subtypes. Int.Immunol. ***17*** 599. PMID: 15802305.

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