TOCRIS
a bio-techne brand

Print Date: Feb 24th 2016

Certificate of Analysis

www.tocris.com

Product Name: **Cyanopindolol hemifumarate** **Catalog No.: 0993** **Batch No.: 4**

CAS Number: 69906-86-1

IUPAC Name: 4-[3-[*tert*-Butylamino]-2-hydroxypropoxy]-1*H*-indole-2-carbonitrile hemifumarate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{21}N_3O_2.½C_4H_4O_4$

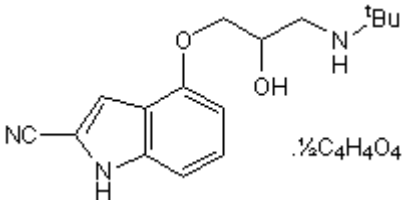
Batch Molecular Weight: 345.4

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.22 (Ethyl acetate:Petroleum ether:Ammonia [5:4:1])

Melting Point: Between 250 - 253°C

HPLC: Shows 99.7% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.59	6.71	12.16
Found	62.29	6.77	12.05

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

Product Name: **Cyanopindolol hemifumarate** **Catalog No.: 0993** **Batch No.: 4**

CAS Number: 69906-86-1

IUPAC Name: 4-[3-[*tert*-Butylamino]-2-hydroxypropoxy]-1*H*-indole-2-carbonitrile hemifumarate

Description:

5-$HT_{1A/1B}$ antagonist with roughly equal affinity at each receptor; also a β-adrenoceptor antagonist.

Physical and Chemical Properties:

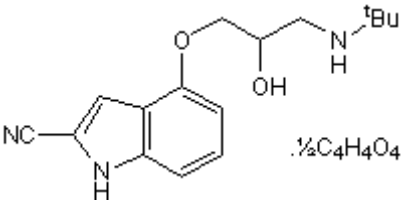
Batch Molecular Formula: $C_{16}H_{21}N_3O_2.½C_4H_4O_4$

Batch Molecular Weight: 345.4

Physical Appearance: White solid

Minimum Purity: >98%

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:

Engel *et al* (1986) Identity of presynaptic 5-hydroxytryptamine (5-HT) autoreceptors in the rat brain cortex with 5-$HT1_B$ binding sites. Naunyn Schmiedebergs Arch.Pharmacol. ***332*** 1. PMID: 2936965.

Blue *et al* (1989) Interaction of dihydroalprenolol and cyanopindolol with atypical β-adrenoceptors in guinea-pig ileum. Br.J.Pharmacol. ***96*** 246P.

Giles *et al* (1996) Characterization of a 5-HT_{1B} receptor on CHO cells: functional responses in the absence of radioligand binding. Br.J.Pharmacol. ***117*** 1119. PMID: 8882605.

Hoey *et al* (1996) Atypical responses of rat ileum to pindolol, cyanopindolol and iodocyanopindolol. Br.J.Pharmacol. ***117*** 712. PMID: 8646418.