

Certificate of Analysis

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Product Name: WAY 207024 dihydrochloride

Catalog No.: 3890

Batch No.: 1

CAS Number: 872002-73-8

IUPAC Name: 6-[[4-[2-[4-(1,1-Dimethylethyl)phenyl]-1*H*-benzimidazol-7-yl]-i-piperazinyl]methyl]-quinoxaline dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₂N₆·2HCl·2H₂O

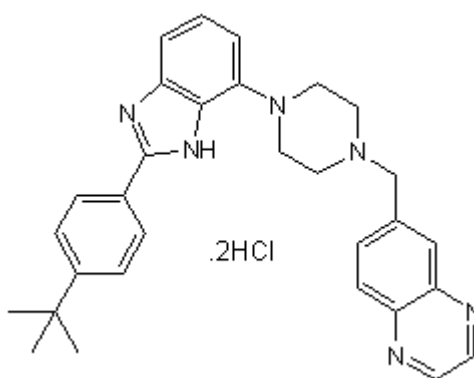
Batch Molecular Weight: 585.57

Physical Appearance: Off-white solid

Solubility: DMSO to 85 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.53	6.54	14.35
Found	61.48	6.56	14.4

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

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Description:

Gonadotropin releasing hormone receptor (GnRH-R) antagonist. Exhibits potent affinity (IC₅₀ values are 12 and 71 nM for human and rat GnRH receptors respectively). Lowers plasma leuteinizing hormone levels in the rat. Orally active.

Physical and Chemical Properties:

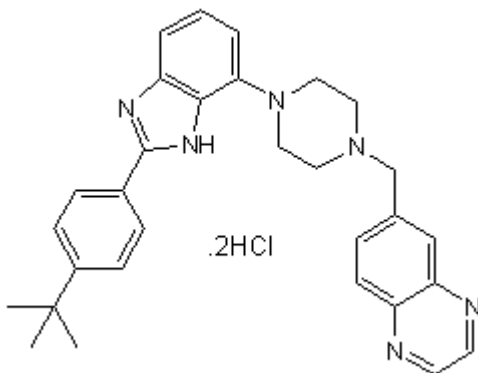
Batch Molecular Formula: C₃₀H₃₂N₆.2HCl.2H₂O

Batch Molecular Weight: 585.57

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 85 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:

Pelletier et al (2009) Discovery of 6-({4-[2-(4-tert-butylphenyl)-1*H*-benzimidazol-4-yl]piperazin-1-yl)methyl)quinoxaline (WAY-207024): an orally active antagonist of the gonadotropin releasing hormone receptor (GnRH-R). *J.Med.Chem.* **52** 214. PMID: 19072222.

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