

Product Name: BRL 44408 maleate

Catalog No.: 1133

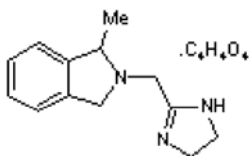
Batch No.: 10

CAS Number: 681806-46-2

IUPAC Name: 2-[(4,5-Dihydro-1*H*-imidazol-2-yl)methyl]-2,3-dihydro-1-methyl-1*H*-isoindole maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₇N₃.C₄H₄O₄
Batch Molecular Weight: 331.37
Physical Appearance: Off-white solid
Solubility: water to 100 mM
 phosphate buffered saline to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (methanol:ammonia soln. [99.9:0.1])
HPLC: Shows >99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.62	6.39	12.67
Found	61.37	6.34	12.59

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

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Description:

BRL 44408 maleate is a selective α_{2A} -adrenoceptor antagonist ($K_i = 1.7$ nM and 144.5 nM at α_{2A} and α_{2B} -adrenergic receptors respectively). Increases hippocampal noradrenalin release following systemic administration.

Physical and Chemical Properties:

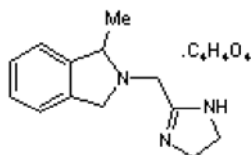
Batch Molecular Formula: C₁₃H₁₇N₃.C₄H₄O₄

Batch Molecular Weight: 331.37

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 mM

phosphate buffered saline to 100 mM

CAUTION - Solutions of this product should be made up and used on the same day. Solutions that are frozen should be aliquoted and used within 1 week.

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.

Licensing Information:

Sold with the permission of GlaxoSmithKline

References:

Callado *et al* (1999) α_{2A} -But not $\alpha_{2B/C}$ -adrenoceptors modulate noradrenaline release in rat locus coeruleus: voltammetric data. *Eur.J.Pharmacol.* **366** 35. PMID: 10064149.

Gavin *et al* (1997) α_{2C} -adrenoceptors mediate contractile responses to noradrenaline in the human saphenous vein. *Naunyn Schmiedebergs Arch.Pharmacol.* **355** 406. PMID: 9089673.

Kiss *et al* (1995) Subtype-specificity of the presynaptic α_2 -adrenoceptors modulating hippocampal NE release in rat. *Brain Res.* **674** 238. PMID: 7796102.

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