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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **L-168,049** **Catalog No.: 2311** **Batch No.: 1**

CAS Number: 191034-25-0

IUPAC Name: 4-[3-(5-Bromo-2-propoxyphenyl)-5-(4-chlorophenyl)-1*H*-pyrrol-2-yl]pyridine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{20}BrClN_2O$

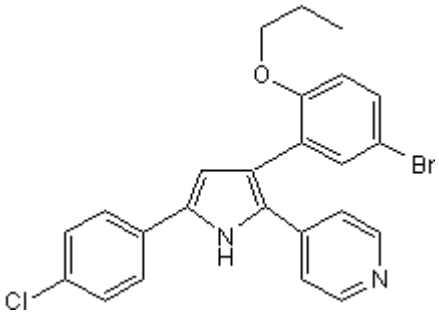
Batch Molecular Weight: 467.79

Physical Appearance: Light Beige solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Ethyl acetate:Petroleum ether [50:50])

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.62	4.31	5.99
Found	61.6	4.29	5.8

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IUPAC Name: 4-[3-(5-Bromo-2-propoxyphenyl)-5-(4-chlorophenyl)-1*H*-pyrrol-2-yl]pyridine

Description:

Very potent and selective, non-competitive antagonist of the human glucagon receptor (hGR). Binds with high affinity to human GR (IC_{50} = 3.7 nM), and moderate affinity to murine and canine GRs (IC_{50} values are 63 and 60 nM respectively). In contrast, displays poor affinity for rat, guinea pig, and rabbit glucagon receptors (IC_{50} > 1 µM). In functional studies, inhibits glucagon-stimulated cAMP synthesis in CHO cells expressing hGR (IC_{50} = 41 nM), and in murine liver membranes. Orally active in vivo.

Physical and Chemical Properties:

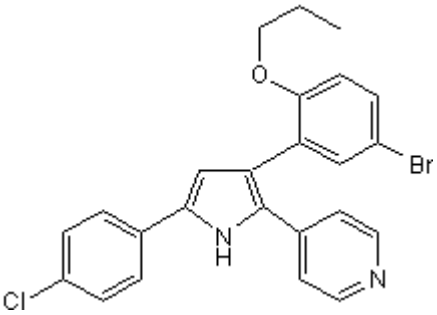
Batch Molecular Formula: $C_{24}H_{20}BrClN_2O$

Batch Molecular Weight: 467.79

Physical Appearance: Light Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Cascieri *et al* (1999) Characterization of a novel, non-peptidyl antagonist of the human glucagon receptor. J.Biol.Chem. ***274*** 8694. PMID: 10085108.

de Laszlo *et al* (1999) Potent, orally absorbed glucagon receptor antagonists. Bioorg.Med.Chem.Lett. ***9*** 641. PMID: 10201821.

Dallas-Yang *et al* (2001) Detection of glucagon-dependent GTPgS binding in high-throughput format. Anal.Biochem. ***301*** 156.