

Certificate of Analysis

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Product Name: BGP 15

Catalog No.: 6703

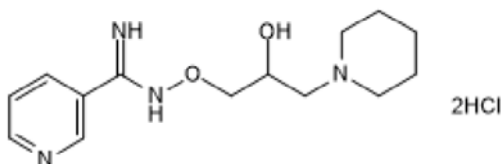
Batch No.: 1

CAS Number: 66611-37-8

IUPAC Name: *N*-[2-Hydroxy-3-(1-piperidinyl)propoxy]-3-pyridinecarboximidamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₄ H ₂₂ N ₄ O ₂ ·2HCl·½H ₂ O
Batch Molecular Weight:	360.28
Physical Appearance:	Yellow solid
Solubility:	water to 100 mM DMSO to 20 mM with gentle warming
Storage:	Store at -20°C
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 46.67 6.99 15.55
	Found 46.71 6.77 15.46

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

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Description:

BGP 15 is a PARP inhibitor ($IC_{50} = 120 \mu M$). Displays cytoprotective effects in various disease models: decreases ROS levels, lipid peroxidation and single-strand DNA breaks in isolated reperfused rat hearts; improves mitochondrial function and protects against neuronal cell death in a mouse model of familial dysautonomia. BGP 15 also activates HSP70 in rodent skeletal muscle, increasing oxidative capacity and improving insulin sensitivity.

Physical and Chemical Properties:

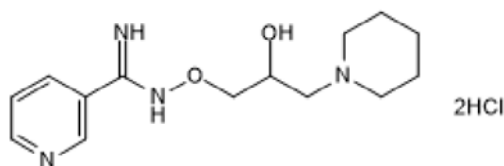
Batch Molecular Formula: $C_{14}H_{22}N_4O_2 \cdot 2HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 360.28

Physical Appearance: Yellow solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

water to 100 mM

DMSO to 20 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Ohlen et al (2017) BGP-15 prevents the death of neurons in a mouse model of familial dysautonomia. *Proc.Natl.Acad.Sci.U.S.A* **114** 5035. PMID: 28439028.

Henstridge et al (2014) Activating HSP72 in rodent skeletal muscle increases mitochondrial number and oxidative capacity and decreases insulin resistance. *Diabetes*. **63** 1881. PMID: 24430435.

Chung et al (2008) HSP72 protects against obesity-induced insulin resistance. *Proc.Natl.Acad.Sci.U.S.A* **105** 1739. PMID: 18223156.

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