

**Product Name:** L 012 sodium salt

**Catalog No.:** 5085

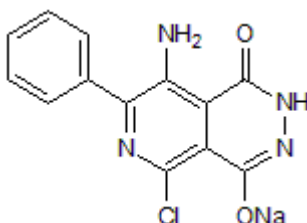
**Batch No.:** 1

**CAS Number:** 143556-24-5

**IUPAC Name:** 8-Amino-5-chloro-2,3-dihydro-7-phenyl-pyrido[3,4-d]pyridazine sodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>13</sub>H<sub>8</sub>ClN<sub>4</sub>NaO<sub>2</sub>·2¼H<sub>2</sub>O  
**Batch Molecular Weight:** 351.2  
**Physical Appearance:** Yellow solid  
**Solubility:** water to 50 mM  
DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	44.46	3.58	15.95
Found	44.52	3.42	15.8

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

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**Description:**

Luminal-based chemiluminescent probe. Detects NADPH oxidase-derived reactive oxygen and nitrogen species (ROS and RNS). Active in vitro and in vivo.

**Physical and Chemical Properties:**

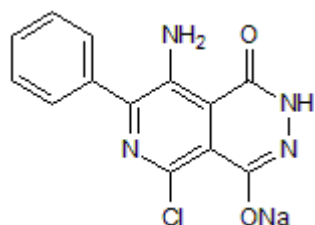
Batch Molecular Formula: C<sub>13</sub>H<sub>8</sub>ClN<sub>4</sub>NaO<sub>2</sub>·2¼H<sub>2</sub>O

Batch Molecular Weight: 351.2

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

water to 50 mM

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:**

**Kielland et al** (2009) In vivo imaging of reactive oxygen and nitrogen species in inflammation using the luminescent probe L-012. *Free Radic.Biol.Med.* **47** 760. PMID: 19539751.

**Zhou et al** (2012) Noninvasive assessment of localized inflammatory responses. *Free Radic.Biol.Med.* **52** 218. PMID: 22080048.

**Ichibangase et al** (2013) Evaluation of lophine derivatives as L-012 (luminal analog)-dependent chemiluminescence enhancers for measuring horseradish peroxidase and H<sub>2</sub>O<sub>2</sub>. Luminescence. Epub ahead of print. PMID: 23630098.

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

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