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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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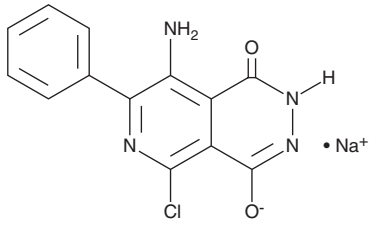
# PRODUCT INFORMATION

## L-012 (sodium salt)

*Item No. 39908*

| | |
|---|---|
| **CAS Registry No.:** | 143556-24-5 |
| **Formal Name:** | 8-amino-5-chloro-2,3-dihydro-7-phenyl-pyrido[3,4-d]pyridazine-1,4-dione, monosodium salt |
| **MF:** | $C_{13}H_8ClN_4O_2 \bullet Na$ |
| **FW:** | 310.7 |
| **Purity:** | ≥98% |
| **Em. Max:** | 470 nm |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

L-012 (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the L-012 (sodium salt) in the solvent of choice, which should be purged with an inert gas. L-012 (sodium salt) is slightly soluble (0.1-1 mg/ml) in acetonitrile.

### Description

L-012 is a chemiluminescent probe for the detection of superoxide and a derivative of luminol (Item No. 16803).[1] It has commonly been used for the detection of NADPH oxidase-derived superoxide *in vitro* and for the detection of reactive oxygen species (ROS) and reactive nitrogen species (RNS) *in vivo*.[1-3] L-012 has a chemiluminescent emission maximum of 470 nm.[3]

### References


1. Daiber, A., August, M., Baldus, S., *et al.* Measurement of NAD(P)H oxidase-derived superoxide with the luminol analogue L-012. *Free Radic. Biol. Med.* **36(1)**, 101-111 (2004).
2. Kielland, A., Blom, T., Nandakumar, K.S., *et al. In vivo* imaging of reactive oxygen and nitrogen species in inflammation using the luminescent probe L-012. *Free Radic. Biol. Med.* **47(6)**, 760-766 (2009).
3. Gao, L., Zhang, Y., Zhao, L., *et al.* An artificial metalloenzyme for catalytic cancer-specific DNA cleavage and operando imaging. *Sci. Adv.* **6(29)**, eabb1421 (2020).



**WARNING**
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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