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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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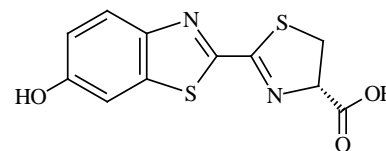
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PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: D-Luciferin, Free Acid**CATALOG #:** 10100/10100-1/10100-2**MOLECULAR INFORMATION:** C₁₁H₈N₂O₃S₂.
MW: 280.
[2591-17-5]**PROPERTIES:****Color & Form**

Off-white solid.

Purity

≥ 99% by HPLC

Solubility

Readily soluble in DMSO. Slightly soluble in water. Avoid alkaline or strongly acidic solution.

STORAGE AND HANDLING:

Store desiccated at -20 °C. Protect from light.

APPLICATION:

Luciferin is a natural compound isolated from fireflies and is a substrate for the enzyme luciferase. Chemiluminescence at 560 nm is generated when luciferin is oxidized by an ATP-dependent process, catalyzed by luciferase. Luciferase is encoded by the *luc* gene, which is widely used as a reporter gene in a variety of cells. Because of the intrinsic low background of chemiluminescence technique, detection of the *luc* gene expression can be made at very low level. In addition, luciferin/luciferase has been used to measure 10⁻¹⁵ molar quantity of ATP.

Ref: *BioTechniques* 7, 1116(1989); *Lett. Appl. Microbiol.* 1, 208(1990).**TOXICITY:**

Unknown.

FIRST AID:

Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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