

LKT Laboratories, Inc.

D-Luciferin 1-(4,5-dimethoxy-2-nitrophenyl) Ethyl Ester

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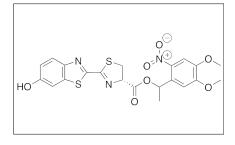
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Product Information

Product ID L8009 CAS No. 223920-67-0 Chemical Name

Synonym DMNPE-caged Luciferin

Formula C₂₁H₁₉N₃O₇S₂ Formula Wt. 489.52 Melting Point Purity ≥95% Solubility Soluble in DMSO or DMF



Bulk quanitites available upon request

Product ID	Size
L8009	1 mg
L8009	5 mg
L8009	10 mg

Store Temp -20°C

Ship Temp Ambient

Description Luciferins are light-emitting heterocyclic compounds commonly used in biochemistry. Luciferin is the natural ligand for the enzyme luciferase, which oxidizes the substrate, emitting energy in the form of light in the process. Firefly luciferase requires ATP for its reaction, emitting a greenish-yellow luminescence at a peak wavelength of approximately 530 nm. DMNPE-caged luciferin crosses cell membranes easily and can be used to study intracellular activities such as changes in gene transcription.

References Hastings JW. Chemistries and colors of bioluminescent reactions: a review. Gene 1996;173(1 Spec No):5-11. PMID: 8707056.

Green A, McElroy WD. Function of adenosine triphosphate in the activation of luciferin. Arch. Biochem. Biophys. 1956 Oct;64 (2):257-71. PMID: 13363432.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.