



LKT Laboratories, Inc.

D-Luciferin Potassium

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Product Information

Product ID L8010

CAS No. 115144-35-9

Chemical Name 4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic acid potassium salt

Synonym

Formula $C_{11}H_7KN_2O_3S_2$

Formula Wt. 318.42

Melting Point

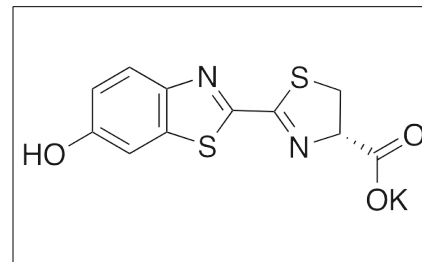
Purity $\geq 98\%$

Solubility Soluble in water (100mM) or DMSO (100mM).

Store Temp $-20^{\circ}C$

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. The potassium and sodium salts of luciferin dissolve much more readily in water or typical buffers and may be more convenient than the free acid form for in vivo imaging.



Bulk quantities available upon request

Product ID	Size
L8010	5 mg
L8010	25 mg

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.