

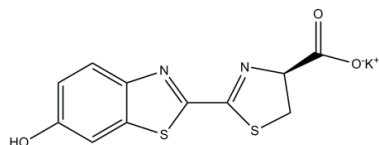
D-Luciferin, Potassium Salt

ALTERNATE NAMES: (S)-2-(6-Hydroxy-2-benzothiazolyl)-2-thiazoline-4-carboxylic acid potassium salt, 4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic acid potassium salt, Firefly luciferin potassium salt

CATALOG #:

7903-100	100 mg
7903-1G	1 g
7903-3PK	3 x 1 g
7903-5PK	5 x 1 g
7903-10PK	10 x 1 g
7903-10G	10 g
7903-25G	25 g
7903-50G	50 g

STRUCTURE:



MOLECULAR FORMULA: C₁₁H₇N₂O₃S₂.K

MOLECULAR WEIGHT: 318.41

CAS #: 115144-35-9

APPEARANCE: Light yellow solid

SOLUBILITY: Water (~40 mg/ml)

PURITY: >95% analyzed by specific absorbance at 327 nm

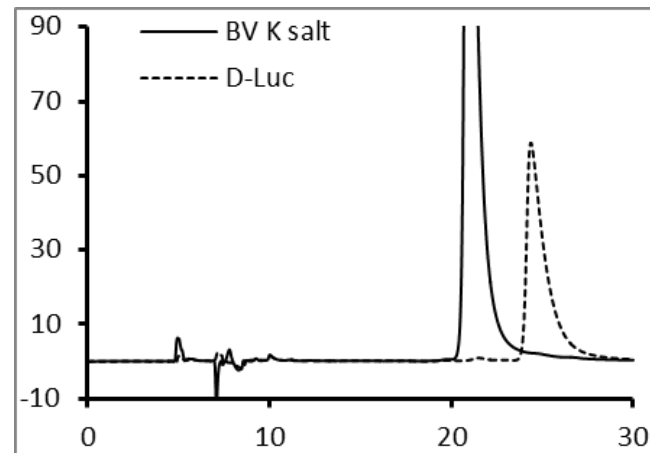
STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: D-Luciferin potassium salt is a useful substrate for the enzyme Firefly Luciferase. Upon oxidation by the enzyme luciferase, produces bioluminescence. D-Luciferin can be utilized to assay the expression of the luciferase gene linked to a promoter of interest. Alternatively, D-Luciferin and luciferase can be used to assess ATP availability in cellular or biochemical assays.

REFERENCES:

1. Branchini, B.R., *et al.* (2004). *Biochemistry* **43**, 7255-7262.
2. Leskinen, P., *et al.* (2003). *Yeast* **20**, 1109-1113.
3. Caceres, G., *et al.* (2003). *Luminescence* **18**, 218-223.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.



RELATED PRODUCTS:

- Coelenterazine, Native (**Cat. No. 2536-500, -1000**)
- Coelenterazine -h (**Cat. No. 2742-250, -1000**)
- ADP Colorimetric/Fluorometric Assay Kit (**Cat. No. K355-100**)
- ADP/ATP Ratio Assay Kit (**K255-200**)
- ATP Cell Viability Assay Kit (**Cat. No. K254-200**)
- ATP Colorimetric/Fluorometric Assay Kit (**Cat. No. K354-100**)
- Bioluminescence Cytotoxicity Assay Kit (**K312-500**)
- Luciferase Polyclonal Antibody (**Cat. No. 3848-500**)
- Luciferase Reporter Assay Kit (**K801-200**)
- Luciferin Potassium Salt (**Cat. No. 7903-100, -1, -3, -5, -10, -10G**)
- Luciferin Sodium Salt (**Cat. No. 7902-100, -1, -3, -5, -10, -10G**)
- Luciferin (Free acid) (**Cat. No. 2779-250, -500, -1000, -500**)
- StayBrite™ Highly Stable Recombinant Luciferase (**Cat. No. 7901-150**)
- StayBrite™ Highly Stable Luciferase/Luciferin Reagent (**Cat. No. K790-100, -1000, -10,000**)
- StayBrite™ Highly Stable ATP Assay K it (**Cat. No. K791-100, -1000**)

FOR RESEARCH USE ONLY! Not to be used on humans.