D-Luciferin, Sodium Salt

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

**CATALOG #:**
- 7902-100 100 mg
- 7902-1 1 g
- 7902-3PK 3 x 1 g
- 7902-5PK 5 x 1 g
- 7902-10PK 10 x 1 g
- 7902-10G 10 g
- 7902-25G 25 g
- 7902-50G 50 g

**STRUCTURE:**

![Structure Image]

**MOLECULAR FORMULA:** C_{11}H_{7}N_{2}O_{3}S_{2}Na

**MOLECULAR WEIGHT:** 302.3

**CAS #:** 103404-75-7

**APPEARANCE:** Light yellow solid

**SOLUBILITY:** Water (~10 mg/ml)

**PURITY:** >99.8% by Chiral HPLC

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

**DESCRIPTION:** D-Luciferin sodium 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.

**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 (Cat. No. K255-200)
- ATP Cell Viability Assay Kit (Cat. No. K254-200)
- ATP Colorimetric/Fluorometric Assay Kit (Cat. No. K354-100)
- Bioluminescence Cytotoxicity Assay Kit (Cat. No. K312-500)
- Luciferase Polyclonal Antibody (Cat. No. 3848-500)
- Luciferase Reporter Assay Kit (Cat. No. K801-200)
- Luciferin Potassium Salt (Cat. No. 7903-100, -1G, -10G)
- Luciferin Sodium Salt (Cat. No. 7902-100, -1G, -10G)
- 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 Kit (Cat. No. K791-100, -1000)

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