

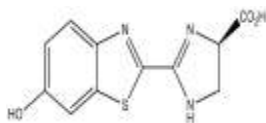
## Product: D-Luciferin (Free acid)

**ALTERNATE NAME:** (S)-2-(6-Hydroxy-2-benzothiazolyl)-2-thiazoline-4-carboxylic acid, 4,5-Dihydro-2-(6-hydroxy-2-benzothiazolyl)-4-thiazolecarboxylic acid; Firefly Luciferin

**CATALOG #:** 2779-250, 500, 1000, 5000

**AMOUNT:** 250 mg, 500 mg, 1 g, 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>11</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>S<sub>2</sub>

**MOLECULAR WEIGHT:** 280.33

**CAS NUMBER:** 2591-17-5

**APPEARANCE:** White to light yellow solid

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

**PURITY:** ≥98% by HPLC

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

**DESCRIPTION:** Synthetic. D-Luciferin is a luminescent substrate for firefly luciferase (K<sub>m</sub> ~2 μM). **Note:** Unlike the Potassium (Cat. No.7903) or Sodium (Cat. No. 7902) salts, Luciferin free acid is not soluble in water. It requires the addition of dilute NaOH or KOH to aid the free acid to go into solution.

**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, 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, 10,0000**)

StayBrite™ Highly Stable ATP Assay Kit (**Cat. No. K791-100,-1000**)