

Caution: For Laboratory Use. A product for research purposes only.

D-Luciferin Potassium Salt

Description:

Luciferin is a common bioluminescent substrate used for imaging and quantification of luciferase expression. It emits a characteristic yellow-green light upon oxidation by luciferase in the presence of cofactors such as ATP, Mg²⁺ and oxygen.

Luciferin is a common reagent used in the biotechnology field and specifically for *in vivo* imaging. Luciferase labeled tumor cells, stem cells or infectious diseases are typically injected into research animals such as rats or mice. The injection of luciferin allows for the real-time, noninvasive monitoring of disease progression and/or drug efficacy in these model systems using bioluminescent imaging instruments.

Luciferin is also commonly used for *in vitro* research, including luciferase and ATP assays, gene reporter assays, high throughput sequencing and various contamination assays.

PRODUCT DETAILS	
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
Appearance	Light yellow solid
CAS #	115144-35-9
Molecular Formula	C ₁₁ H ₇ KN ₂ O ₃ S ₂
Molecular Weight	318.41
Purity	≥99.8% by Chiral HPLC
Solubility	H ₂ O (~40 mg/ml)
SMILES	C1C(NC(=C2N=C3C=CC(=O)C=C3S2)S1)C(=O)[O-].[K+]
Handling	Protect from air and light
Storage Conditions	-20°C
USAGE	For Research Use Only! Not For Use in Humans.

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