

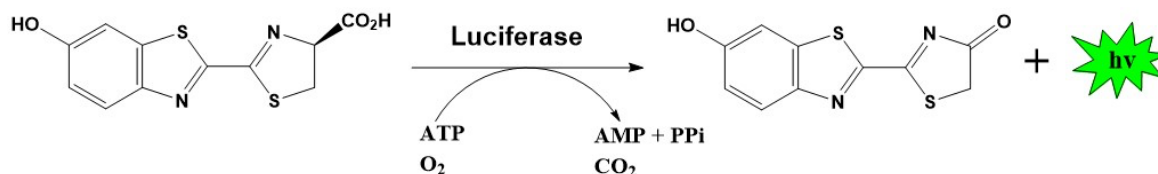
D-Luciferin, potassium salt

Catalog Number	Product Name	Packaging Size
C293	D-Luciferin, potassium salt	100 mg

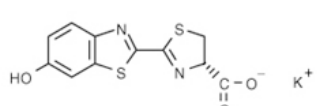
Storage upon receipt: -20°C, protected from light

Introduction

Luciferins are a class of ATP-dependent substrates that are oxidized in the presence of the enzyme luciferase to produce oxyluciferin and energy in the form of light. Luciferin undergoes an enzyme-catalysed oxidation and the resulting unstable reaction intermediate emits light upon decaying to its ground state. This system is employed as a very useful reporter in plants, bacteria, and mammalian cells. Because chemiluminescent techniques are virtually background-free, this reporter gene system is ideal for detecting low-level gene expression.



Specifications

Product Name:	D-Luciferin, potassium salt
Molecular Formula:	C ₁₁ H ₇ KN ₂ O ₃ S ₂
Molecular Weight:	318.40
CAS Number:	15144-35-9
Storage Conditions:	-20 °C, protected from light
Shipping Condition:	Room Temperature
Structure:	

References:

1. Bacterial and Firefly Luciferase Genes in Transgenic Plants, Advantages and Disadvantages of a Reporter Gene.
 Koncz C, et al.
 Dev Genet (1990) 11:224-224
2. Investigation of the Interaction between Firefly Luciferase and Oxyluciferin or Its Analogues by Steady State and Subnanosecond Time-Resolved Fluorescence. Investigation of the Interaction between Firefly Luciferase and Oxyluciferin or Its Analogues by Steady State and Subnanosecond Time-Resolved Fluorescence.
 Gandelman OA, et al.
 J Photochem Photobiol B (1994) 22:203-203