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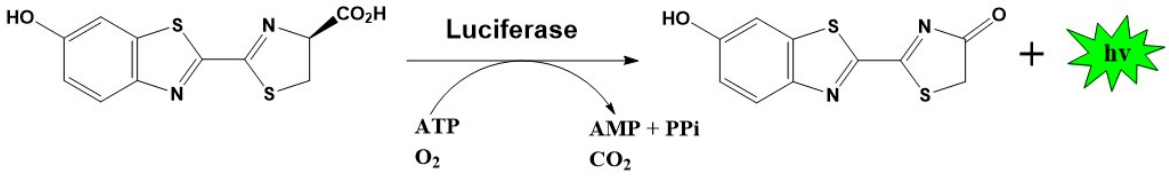
D-Luciferin, sodium salt

Catalog Number	Product Name	Packaging Size
C294	D-Luciferin, sodium salt	100 mg

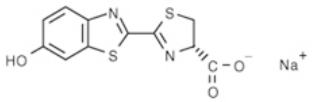
Storage upon receipt: -20°C, protected from light

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, sodium salt**
Molecular Formula:	$C_{11}H_7N_2NaO_3S_2$
Molecular Weight:	302.30
CAS Number:	103404-75-7
Storage Conditions:	-20 ℃, 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.
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