

Luciferase firefly from Photinus pyralis

Catalog No: #NAT002

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Description

Product Name	Luciferase firefly from Photinus pyralis
Brief Description	Enzyme
Host Species	E.coli
Other Names	Luciferin 4-monooxygenase, Firefly Luciferase
Accession No.	CAS Registry Number: 61970-00-1 Enzyme Commission (EC) Number: 1.13.12.7
Storage	Store the product at β 20 °C.

Application Details

Firefly luciferase is a 62 kDa protein that catalyzes the production of light. The enzyme requires ATP, molecular oxygen, and luciferin, a heterocyclic compound, to generate light in a two-step process.¹ The light-producing reaction is initiated by luciferin activation (adenylation of its carboxylate group) and proceeds in the presence of molecular oxygen to yield a photon of yellow-green light. Firefly luciferase is used extensively in molecular and cell biology, in particular for the efficient detection and quantitation of ATP and as a reporter for genetic function.

This product is a recombinant luciferase from Photinus pyralis (American firefly) produced from the luc gene expressed in E. coli.

Note: This product is for in vitro research use only