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## **Firefly Luciferase**

Cat #:PRP3004 Size: 1 mg/5 mg/25 mg

## **Product Information**

	Product Name: Firefly Luciferase		
REF	Catalog Number: PRP3004	LOT	Lot Number: Refer to product label
	Purity: > 98% as determined by SDS-PAGE		
Ŷ	Storage: Store at -20°C		Preparation method: E. coli
	Shipping: The product is shipped by ice pack or gel pack with blue ice		

<u>Background</u>: Firefly Luciferase catalyzes the reaction of luciferin with ATP and results in the production of yellow-green light. The enzyme has a molecular weight of 62 kDa and is expressed in peroxisomes. Luciferase is considered a model for studying protein-anesthetic interactions. Firefly Luciferase is very useful in cell biology and molecular biology as a reporter of gene function and for the quantification of ATP.

<u>Sequence</u>: Amino acid sequence of luciferase derived from *Photinus pyralis* (firefly) was expressed with 6×His tag at the N-terminus.

Protein length: The recombinant Firefly Luciferase predicts a molecular mass of 62 kDa.

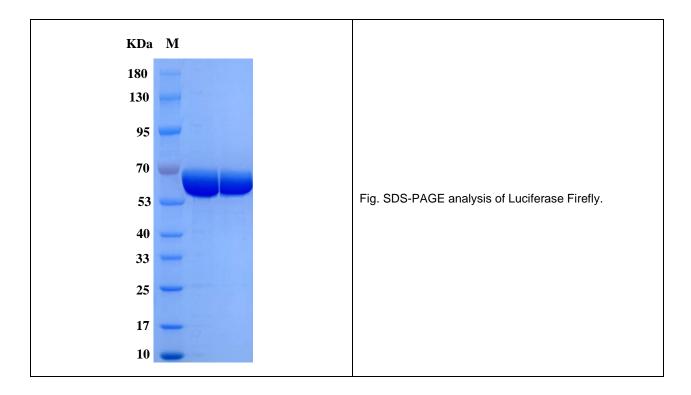
Biological Activity: >109 RLU/mg protein as determined in the presence of ATP and luciferin.

Formulation: Liquid in from sterile 20 mM Tris, 150 mM NaCl, 1mM DTT, pH 8.0.

**Storage Instructions:** Firefly Luciferase product can be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

<u>Usage notes:</u> Please ensure that the product is frozen before proceeding. Dissolve slowly at 4°C before use, and then proceed with other operations. If dilution is required, you can use a solution of 20 mM Tris, 150 mM NaCl, 1 mM DTT, pH 8.0 to dilute to the specified concentration. For long-term storage, it is recommended to add 0.1% HSA or BSA or 5% trehalose.





**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.

