


Firefly Luciferase

Cat #:PRP3004

Size: 5mg/25mg

Product Information

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

Background: 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.

Sequence: 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.

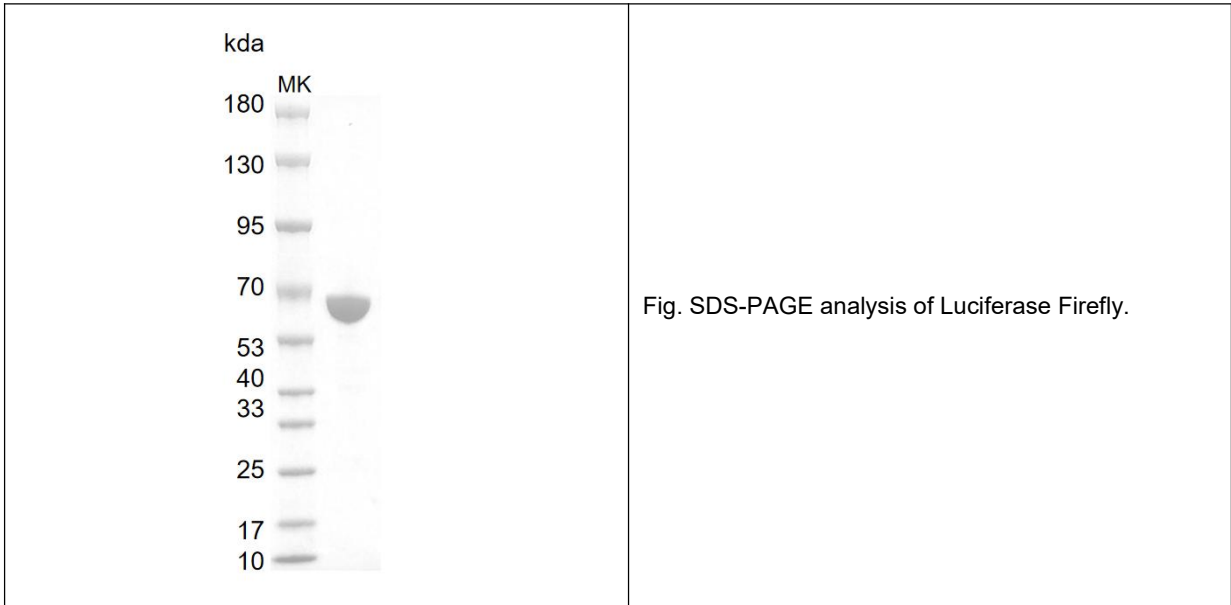
Biological Activity: >10⁹ RLU/mg protein as determined in the presence of ATP and luciferin.

Endotoxin: Please contact us for more information.

Formulation: Buffered aqueous solution contains 20mM Tris, 150mM NaCl, 1mM EDTA, 15% glycerol, pH 8.0.

Storage Instructions: The recombinant Luciferase Firefly product should be protected from light and stored below -20°C. To keep the enzyme activity and for long term storage, it is recommended to be aliquoted and prevent freeze-thaw cycles.

Usage notes: /



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