

Recombinant Fire fly Luciferase

Fire Fly, Recombinant

Expressed in *E. coli*

Cat. No. CRP0850

Lot. No. (See product label)

PRODUCT INFORMATION

Description: Luciferases are enzymes that emit light. A diverse group of organisms use luciferase-mediated bioluminescence to startle predators or to attract prey or mates. The luciferase from the North American fire fly releases green light during the oxidation of its chemical substrate, luciferin. Recombinant luciferase is expressed in *E. coli*.

Recombinant: Expressed in *E. coli*

M. W. : 62,000 Da

Specific Activity: more than 3.5×10^{10} light Unites/mg.

Purity: >95% as determined by SDS-PAGE.

Physical Appearance: Lyophilized powder

Optimum PH: 7.0—8.5

PH Stability: 6.0—9.0

Storage: This lyophilized preparation should be kept at -20°C for six months, and kept at -70°C for one year.

FOR RESEARCH USE ONLY

REFERENCES

1. Wood K.V, Deluca M, et al. Firefly luciferase gene: structure and expression in mammalian cells. *Mol. Cell. Biol.* 1987; 7:25-33.
2. Conti E, Franks N.P, et al. Crystal structure of firefly luciferase throws light on a superfamily of adenylate-forming enzymes. *Structure*, 1996; 4: 287– 298.
3. Keller G.A, Gould S, et al. Firefly luciferase is targeted to peroxisomes in mammalian cells. *Proc. Natl. Acad. Sci.* 1987; 84: 3264-3268.

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45-16 Ramsey Road Shirley, NY 11967, USA
Technical Support: T: 631-871-5806 · F: 631-207-8356
E-mail: info@creative-biolabs.com
www.creative-biolabs.com