

## Recombinant Fire fly Luciferase

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Fire Fly, Recombinant

Expressed in *E. coli*

Cat. No. Luciferase-08F

Lot. No. (See product label)

### PRODUCT INFORMATION

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**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  $2.0 \times 10^{11}$  RLU/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  $-20^{\circ}\text{C}$  for six months, and kept at  $-70^{\circ}\text{C}$  for one year.

### FOR RESEARCH USE ONLY

### REFERENCES

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1. Wood K.V, Deluca M, et al. Firefly luciferase gene: structure and expression in mammalian cells. *Mol. Cell. Biol.* 1987; 7:25-737.
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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