

Recombinant Fire fly Luciferase

Cat. No. Luciferase-08F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Fire fly luciferase produced in <i>E. coli</i> has a molecular mass of approximately 62 KDa.
Species	Firefly
Source	<i>E.coli</i>
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 <i>E. coli</i> .
Purity	>95% as determined by SDS-PAGE.
Specific Activity	more than 2.0×10^{11} RLU/mg.
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.

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**Crystal structure
of Photinus
pyralis firefly
luciferase.**



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