

MCLAB

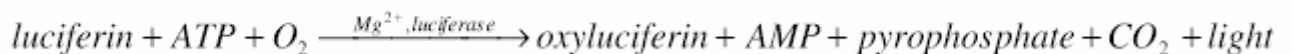
A leader in DNA sequencing services and consumables.



Firefly luciferase (photinus pyralis)

1. Description

Firefly luciferase catalyses the oxidation of luciferin to oxyluciferin in an ATP-dependent process generating chemiluminescence at 560 nm (pH 7.8):



The supplied firefly luciferase is a recombinant enzyme prepared from a thermostable mutant, supplied in a buffer of 10% glycerol, 50mM Tris-HCl, 1 mM DTT and 1 mM EDTA. It remain active at 42°C for 24 hours (with < 5% loss of activity).

2. Product Information

Product:

Firefly luciferase: 1mg	Cat# FL0001
Firefly luciferase:5mg	Cat# FL0005
Firefly luciferase:10mg	Cat# FL0010
Firefly luciferase:50mg	Cat# FL0050
Firefly luciferase:100mg	Cat# FL0100
Firefly luciferase:1000mg	inquire

Format: The firefly luciferase is stored in 10mM Tris-HCl , PH 7.8, 100mM NaCl, 0.1mM DTT, 0.1mM EDTA and 50% glycerol.

Concentration: 5mg/ml

Biological Activity: >1x01E8 RUL/mg.

Source/Host: recombinant protien purified from E. Coli

Purity/Purification: >95.0% as SDS-PAGE.

Storage: should be stored -20 oC. For long term storage it is recommended -80 oC

3. Product specific literature references

Kricka UJ. (1988) "Clinical and biochemical applications of luciferases and luciferins", Anal Biochem. 175 (1): 14-21