

Recombinant Luciferase

Catalog Number: SJE05

Strength: 0.5mg

Specifications and Use

- Source** ● Recombinant luciferase (rLUC) produced in E. coli, is a kind of protease with DsbA fusion tags. Luciferase can catalyze the oxidation and luminescence of luciferin or aliphatic aldehydes in vivo.
- Molecular Mass** ● Approximately 65.0kD.
- Purity** ● ≥95%.
- Endotoxin Level** ● <1EU/μg, determined by the LAL method.
- Biological Activity** ● ATP kit, chemiluminescence instrument was used to detect protein with activity ≥1.0 × 10¹⁰ photounits /mg.
- Formulation** ● Sterile lyophilized powder, in 50mM Tris 500mM NaCl, pH8.0.
- Reconstitution** ● It is recommended to reconstitute in 0.5ml sterile water.
- Storage** ● Lyophilized samples are stable for greater than six months from date of receipt at -20°C to -70°C.
● **Avoid repeated freeze-thaw cycles.**

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Luciferase is a highly effective biocatalyst composed of a polypeptide chain. In the presence of ATP, magnesium ions and oxygen, it can catalyze the oxidation of luciferin to oxyluciferin, during which bioluminescence is released. This fluorescence can be determined by chemiluminescence instrument or liquid flicker analyzer.

FOR LABORATORY USE ONLY.