

Recombinant Renilla Luciferase, His tagged, Protein G Labeled

Cat. No. Luciferase-06R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Protein G labeled recombinant Renilla Luciferase with His tag was expressed in E. coli.
Species	Renilla
Source	E.coli
Conjugation/Label	Protein G
Description	<p>Antibody Binding Renilla Luciferase is a Protein G-Renilla luciferase (protein G-Rluc) fusion protein. It consists of protein G and Renilla luciferase (Rluc), while the two proteins connect via a short peptide. Protein G tightly binds to IgG molecules from rabbit, human, mouse, goat, sheep, cow, and rat. In addition, protein G conjugates are especially valuable for detecting antibodies that bind poorly to protein A, such as human IgG3, mouse IgG1, and immunoglobulins from rat, sheep, and horse. Renilla luciferase is a light-emitting enzyme and is a reporter enzyme to estimate gene expression. It catalyzes the oxidization of renilla luciferin, allowing its detection by a luminometer. As an antibody binding luciferase, protein G-Rluc can avoid harmful labeling of the detecting antibody. Because staining protocols vary with application, the appropriate dilution of Antibody Binding Renilla Luciferase should be determined empirically.</p>
Form	Liquid
Molecular Mass	61 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	≥ 90% by SDS-PAGE
Applications	In vitro research use only
Storage	Short Term Storage: -20 centigrade Long Term Storage: -20 centigrade Avoid freeze/thaw cycle. Aliquot upon arrival.
Storage Buffer	50 mM sodium phosphate, 100 mM NaCl, 1 mM DTT, pH7.2, 50% glycerol
Concentration	0.5-1.0 mg/mL
Shipping	Cold packs
GENE INFORMATION	
Synonyms	Luciferase

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