

Recombinant Full Length Renilla reniformis Luciferase, His tagged

Cat. No. Luciferase-12R Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Renilla luciferase (RLuc) protein has 324 amino acids with a molecular weight of 37.4 kDa. It is the full-length protein (aa 1-311) of Renilla luciferase. It also has a 7 × Histidine tag on the N-terminus. Thus, anti-His tag antibody can detect the protein in Western blotting. In addition, the recombinant RLuc is expressed by our unique SoluPrx technology and is isolated from the soluble fraction as an active protein. Hence, the recombinant Renilla luciferase (RLuc) Protein is an ideal standard for SDS gels, Western Blots, ELISA, protein array, and function assays.

Species

Renilla reniformis

Source

E.coli

ProteinLength

1-311 aa

Description

Renilla luciferase (RLuc) is an oxidative enzyme from Renilla reniformis. It catalyzes the oxidization of renilla luciferin. The RLuc protein provides an extremely bright flash signal that decays rapidly. The protein also has an emission spectrum in the green region. Moreover, the RLuc protein is more stable in serum than the wild-type luciferase. Since its bioluminescence only requires molecular oxygen, Renilla luciferase has been used in numerous applications as a reporter gene in cell culture, in vivo imaging, and other areas.

Form

Liquid

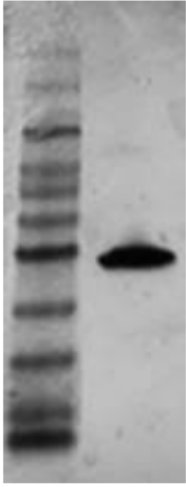
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Molecular Mass	37.4 kDa
Purity	≥ 95% by SDS-PAGE
Applications	In vitro research use only
Storage	Short Term Storage: -20 centigrade Long Term Storage: -20 centigrade Avoid freeze/thaw cycle. Aliquot upon arrival.
Storage Buffer	10 mM PBS buffer, 50% glycerol, pH7.2
Concentration	0.5-1.0 mg/mL
Shipping	Cold packs

GENE INFORMATION

Synonyms	Luciferase
WB	

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