

Active Recombinant Renilla reniformis Luciferase (1-311), N-His-tagged

Cat. No. Luciferase-10R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant renilla reniformis LUC (1-311), fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Renilla reniformis
Source	E.coli
ProteinLength	1-311
Description	LUC, also known as luciferase. LUC catalyzes the oxidative decarboxylation of coelenterazine in the presence of dissolvedoxygen to yield oxyluciferin, CO ₂ , and blue light. In vivo, the excited state luciferin-luciferase complex undergoes the process of noradiative energy transfer to an accessory protein, green fluorescent protein, which results in green bioluminescence. In vitro, it emits blue light in the absence of any green fluorescent protein.
Form	Liquid
Bio-activity	Specific activity is >1×10 ⁹ lightunit/mg. One luciferase enzymeunit will produce one Relative Light Unit (RLU) at pH 7.5 at 25 centigrade.
Molecular Mass	38.5 kDa (335aa) Confirmed by MALDI-TOF
AA Sequence	MTSKVYDPEQRKRMITGPQWWARCKQMNVLDSFINYYDSEKHAENAVIFLHGNA

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SSYLWRHVVPHIEPVARCIIPDLIGMGKSGKSGNGSYRLLDHYKYLTAWFELLNLPPK
IIFVGHDWGACLAHFHYSYEHQDKIKAIVHAESVVDVIESWDEWPDIEEDIALIKSEEGE
KMVLNNFFVETMLPSKIMRKLEPEEFAAYLEPFKEKGEVRRPTLSWPREIPLVKGG
KPDVVQIVRNYNAYLRASDDLPMFIESDPGFFSNAIVEGAKKFPNTEFVKVKGLHFS
QEDAPDEMGKYIKSFVERVLKNEQ

Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

GENE INFORMATION

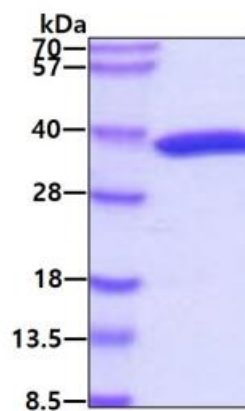
Official Symbol	Luciferase
Synonyms	Luciferase; Coelenterazine h 2-monooxygenase; EC:1.13.12.5; Renilla-luciferin 2-monooxygenase; Renilla-type luciferase
UniProt ID	P27652

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SDS-PAGE



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