

Active Recombinant Firefly Luciferase Protein (1-550), N-His-tagged

Cat. No. Luciferase-787F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant firefly Luciferase (1-550), fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Firefly
Source	E.coli
ProteinLength	1-550
Description	Luciferase is a generic term for the class of oxidative enzymes used in bioluminescence and is distinct from a photoprotein. Luciferase catalyzes a bioluminescent reaction which requires the substrate luciferin as well as Mg ²⁺ and ATP, produces green light with a wavelength of 562 nm. Luciferase from firefly is widely used as a reporter for studying gene regulation and function, and for pharmaceutical screening.
Form	Liquid
Bio-activity	Specific activity is 1×10 ¹⁰ lightunit/mg. One luciferase enzymeunit will produce one Relative Light Unit (RLU) at 25 centigrade.
Molecular Mass	63 kDa (571aa) confirmed by MALDI-TOF
AA Sequence	MEDAKNIKKGPAPFYPLEDGTAGEQLHKAMKRYALVPGTIAFTDAHIEVNITYAEYFE

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MSVRLAEAMKRYGLNTNHRIVVCSSENSLQFFMPVLGALFIGVAVAPANDIYNERELL
 NSMNISQPTVVVFVSKKGLQKILNVQKKLPPIQKIIIMDSKTDYQGFQSMYTFVTSHLPP
 GFNEYDFVPESFDRDKTIALIMNSSGSTGLPKGVALPHRTACVRFSHARDPIFGNQII
 PDTAILSVPFHHGFGMFTTLGYLICGFRVVLMYRFEEELFLRSLQDYKIQSALLVPTL
 FSFFAKSTLIDKYDLSNLHEIASGGAPLSKEVGEAVAKRFHLPGIRQGYGLTETTSAILI
 TPEGDDKPGAVGKVVPPFEAKVVDLDTGKTLGVNQRGELCVRGPMIMSGYVNNPE
 ATNALIDKDGWLHSGDLAYWDEDEHFFIVDRLKSLIKYKGYQVAPAELESILLQHPNI
 FDAGVAGLPDDDAGELPAAVVLEHGKTMTEKEIVDYVASQVTTAKKLRRGGVVFVD
 EVPKGLTGKLDARKIREILIKAKKGGKSKL

Purity > 90% 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 1 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; Luciferin 4-monooxygenase, LuC

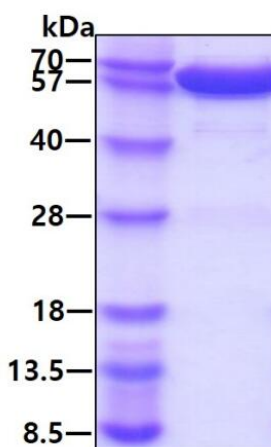
UniProt ID [A3KBZ5](#)

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SDS-PAGE



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