

Luciferase Recombinant Protein

Luciferase, 1-550aa, Firefly, His tag, E Coli

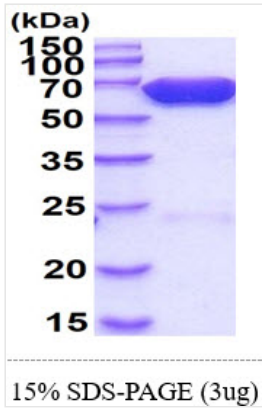
CATALOG # AAA48630	HOST E Coli	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

Luciferase; 1-550aa; Firefly; His tag; E Coli; Luciferin 4-monooxygenase; LuC; Luciferase recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MMEDAKNIKK GPAPFYPLED GTAGEQLHKA MKRYALVPGT IAFTDAHIEV DITYAEYFEM SVRLAEAMKR YGLNTNHRIV VCSENSLQFF MPVLGALFIG VAVAPANDIY NERELLNSMG ISQPTVVFVS KKGLQKILNV QKKLPIIQKI IIMDSKTDYQ GFQSMYTFVT SHLPPGFNEY DFVPESFDRD KTIALIMNSS GSTGLPKGVA LPHRTACVRF SHARDPIFGN QIIPDTAILS VVPFHHGFGM FTTLGYLICG FRVVLMYRFE EELFLRSLQD YKIQSALLVP TLFSFFAKST LIDKYDLSNL HEIASGGAPL SKEVGEAVAK RFHLPGIRQG YGLTETTSAl LITPEGDDKP GAVGKVVPPF EAKVVDLDTG KTLGVNQRGE LCVRGPMIMS GYVNNPEATN ALIDKDGWLH SGDIAYWDED EHFFIVDRLK SLIKYKGYQV APAELESILL QHPNIFDAGV AGLPDDDDAGE LPAAVVVLEH GKTMTKEIV DYVASQVTTA KKLGGGVFV DEVPKGLTGK LDARKIREIL IKAKKGKIA V
Sequence Length	1653
Applicable Applications for Luciferase recombinant protein	SDS-PAGE
Antigen Species	firefly
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Luciferase recombinant protein	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 Mg2+ 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. Recombinant firefly Luciferase, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for Luciferase recombinant protein	Enzymes & Proteases
References	Moore S A., et al. (1995) J Mol Biol. 249 (1):195-214; Gould S J., et al. (1988) Anal Biochem. 175 (1):5-13.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	126635324
Molecular Weight	62.9 kDa (571aa), confirmed by MALDI-TOF
NCBI Official Full Name	Photinus pyralis mRNA for luciferase, variation: Ile423Leu
UniProt Protein Name	Luciferase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.