

Datasheet for ABIN7596301

Luciferase Protein (AA 1-550) (His tag)[Go to Product page](#)

Overview

Quantity:	500 µg
Target:	Luciferase
Protein Characteristics:	AA 1-550
Origin:	Firefly
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Luciferase protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	MEDAKNIKK GPAPFYPLED GTAGEQLHKA MKRYALVPGT IAFTDAHIEV NITYAEYFEM SVRLAEAMKR YGLNTNHRIV VCSENSLQFF MPVLGALFIG VAVAPANDIY NERELLNSMN ISQPTVVFVS KKGLQKILNV QKKLPQQKI IIMDSKTDYQ GFQSMYTFVT SHLPPGFNEY DFVPESFDRD KTIALIMNSS GSTGLPKGVA LPHRTACVRF SHARDPIFGN QIIPDTAILS VVPFHHGFGM FTTLGylicG FRVVLMYRFE EELFLRSLQD YKIQSALLVP TLFSSFFAKST LIDKYDLSNL HEIASGGAPL SKEVGEAVAK RFHLPGIRQG YGLTETTSai LITPEGDDKP GAVGKVVPPF EAKVVDLDTG KTLGVNQRGE LCVRGPMIMS GYVNNPEATN ALIDKDGWLH SGDLAYWDED EHFFIVDRlk SLIKYKGYQV APAELESILL QHPNIFDAGV AGLPDDDAGE LPAAVVLEH GKTMTKEIV DYVASQVTTA KKLrGGVVfV DEVPKGLTgK LDARKIREIL IKAKKGGKSK L
Purity:	> 90% by SDS-PAGE

Product Details

Biological Activity Comment: Specific activity is 1×10^{10} lightunit/mg. One luciferase enzymeunit will produce one Relative Light Unit (RLU) at 25°C

Target Details

Target: Luciferase

Abstract: [Luciferase Products](#)

Background: 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. Recombinant firefly Luciferase, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Molecular Weight: 63 kDa (571 aa) confirmed by MALDI-TOF

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.