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Product datasheet

Recombinant Firefly Luciferase protein ab100961

4 References 1 Image

Description

Product name Recombinant Firefly Luciferase protein

Purity > 90 % SDS-PAGE.

ab100961 is purified using conventional chromatography techniques.

Expression system Escherichia coli

Accession P08659

Protein length Full length protein

Animal free No

Nature Recombinant

Sequence MGSSHHHHHHSSGLVPRGSHMMEDAKNIKKGPAPFYPLE

DGTAGEQLHKA

 ${\sf MKRYALVPGTIAFTDAHIEVDITYAEYFEMSVRLAEAMKRY}$

GLNTNHRIV

VCSENSLQFFMPVLGALFIGVAVAPANDIYNERELLNSMGI

SQPTVVFVS

KKGLQKILNVQKKLPIIQKIIIMDSKTDYQGFQSMYTFVTSHL

PPGFNEY

DFVPESFDRDKTIALIMNSSGSTGLPKGVALPHRTACVRF

SHARDPIFGN

QIIPDTAILSVVPFHHGFGMFTTLGYLICGFRVVLMYRFEEE

LFLRSLQD

YKIQSALLVPTLFSFFAKSTLIDKYDLSNLHEIASGGAPLSK

EVGEAVAK

RFHLPGIRQGYGLTETTSAILITPEGDDKPGAVGKVVPFFE

AKVVDLDTG

KTLGVNQRGELCVRGPMIMSGYVNNPEATNALIDKDGWL

HSGDIAYWDED

EHFFIVDRLKSLIKYKGYQVAPAELESILLQHPNIFDAGVAG

LPDDDAGE

LPAAVVVLEHGKTMTEKEIVDYVASQVTTAKKLRGGVVFV

DEVPKGLTGK LDARKIREILIKAKKGGKIAV

Predicted molecular weight 63 kDa including tags

Amino acids 1 to 550

Tags His tag N-Terminus

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Specifications

Our Abpromise guarantee covers the use of ab100961 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Mass Spectrometry

Mass spectrometry MALDI-TOF

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCI, 10% Glycerol (glycerin, glycerine)

General Info

Relevance Luciferase from the firefly has become one of the more widely used reporter proteins for the study

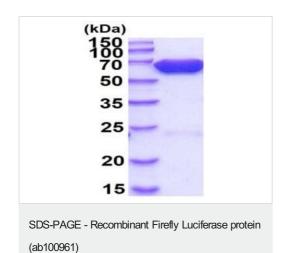
 $of gene \ expression. \ Luciferase \ catalyzes \ a \ bioluminescent \ reaction \ which \ requires \ the \ substrate$

luciferin as well as Mg2+ and ATP. Mixing these reagents with the cell extract containing luciferase, results in a flash of light that decays rapidly. This light can be detected by a

luminometer. The total light emission is proportional to the luciferase activity of the sample.

Cellular localization Peroxisome

Images



15% SDS-PAGE showing <u>ab100691</u> (3 μ g) at approximately 62.9 kDa.

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