

Product datasheet

Recombinant Firefly Luciferase protein ab100961

2 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	<p>MGSSHHHHHHSSGLVPRGSHMMEDAKNIKKGPAPFYPLE DGTAGEQLHKA MKRYALVPGTIAFTDAHIEVDITYAEYFEMSVRLAEAMKRY GLNTNHRIV VCSENSLQFFMPVLGALFIGVAVAPANDIYNERELLNSMGI SQPTVVFVS KKGLQKILNVQKLPPIQKIIIMDSKTDYQGFQSMYTFVTSHL PPGFNEY DFVPESFDRDKTIALIMNSSGSTGLPKGVALPHRTACVRF SHARDPIFGN QIIPDTAILSVPFHHGFGMFTTLGYLICGFRVVLMYRFEEE LFLRSLQD YKIQSALLVPTLFSFFAKSTLIDKYDLSNLHEIASGGAPLSK EVGEAVAK RFHLPGIRQGYGLTETTSAILITPEGDDKPGAVGKVVPPFE AKVVDLDTG KTLGVNQRGELCVRGPMIMSGYVNNPEATNALIDKDGWL HSGDIAYWDED EHFFVDRKLSLIKYGQVAPAELESILLQHPNIFDAGVAG LPDDDAGE LPAAVVVLEHGKTMTEKEIVDYVASQVTTAKKLRGGVVFV DEVPKGLTGK LDARKIREILIKAKKGGKIAV</p>
Predicted molecular weight	63 kDa including tags
Amino acids	1 to 550
Tags	His tag N-Terminus

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 HCl, 10% Glycerol (glycerin, glycerine)
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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 Mg ²⁺ 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 [ab100691](#) (3 µg) at approximately 62.9 kDa.

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