

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 MKRYALVPGTIAFTDAHIEVDITYAEYFEMSVRLAEAMKRY GLNTNHRIV VCSENSLQFFMPVLGALFIGVAVAPANDIYNERELLNSMGI SQPTVVFVS KKGLQKILNVQKKLP IIQKIIIMDSKTDYQGFQSMYTFVTSHL PPGFNEY DFVPESFDRDKTIALIMNSSGSTGLPKGVALPHRTACVRF SHARDPIFGN QIIPDTAILSVPFHHGFGMFTTLGYLICGFRVVLMYRFEEE LFLRSLQD YKIQSALLVPTLFSFFAKSTLIDKYDLSNLHEIASGGAPLSK EVGEAVAK RFHLPGIRQGYGLTETTSAILITPEGDDKPGAVGKVVPFFE AKVVDLDTG KTLGVNQRGELCVRGPMIMSGYVNNPEATNALIDKDGWL HSGDIAYWDED EHFFIVDRLKSLIKYGYQVAPAELESILLQHPNIFDAGVAG LPDDDAGE LPAAVVVLEHGKTMTEKEIVDYVASQVTTAKKL RGGVVFV DEVPKGLTGK LDARKIREILIKAKKGGKIAV		
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)

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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