Datasheet for ABIN7281246

Luciferase Protein (AA 1-311) (His tag)

1 Image

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Overview

Quantity:	100 µg
Target:	Luciferase
Protein Characteristics:	AA 1-311
Origin:	Sea Pansy
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)

Product Details

Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHMTSKVY DPEQRKRMIT GPQWWARCKQ MNVLDSFINY YDSEKHAENA VIFLHGNAAS SYLWRHVVPH IEPVARCIIP DLIGMGKSGK SGNGSYRLLD HYKYLTAWFE LLNLPKKIIF VGHDWGACLA FHYSYEHQDK IKAIVHAESV VDVIESWDEW PDIEEDIALI KSEEGEKMVL ENNFFVETML PSKIMRKLEP EEFAAYLEPF KEKGEVRRPT LSWPREIPLV KGGKPDVVQI VRNYNAYLRA SDDLPKMFIE SDPGFFSNAI VEGAKKFPNT EFVKVKGLHF SQEDAPDEMG KYIKSFVERV LKNEQ
Purity:	> 95 % by SDS-PAGE
Biological Activity Comment:	Specific activity is >1X109 light units/mg. One luciferase enzyme units will produce one Relative Light Unit (RLU) at pH7.5 at 25C.

Target Details

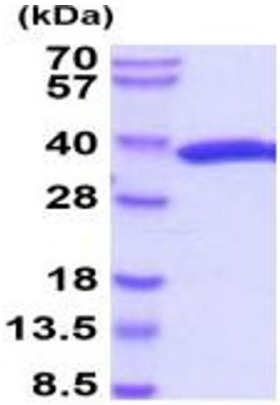
Target:	Luciferase
Abstract:	Luciferase Products
Background:	LUC, also known as luciferase. LUC catalyzes the oxidative decarboxylation of coelenterazine in the presence of dissolvedoxygen to yield oxyluciferin, CO2, and blue light. In vivo, the excited state luciferin-luciferase complex undergoes the process of noradiative energy transfer to an accessory protein, green fluorescent protein, which results in green bioluminescence. In vitro, it emits blue light in the absence of any green fluorescent protein. Recombinant renilla reniformis LUC, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Molecular Weight:	38.5 kDa (335aa) Confirmed by MALDI-TOF

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. 20 mM Tris-HCl (pH 8.0) containing 1 mM DTT, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.