

Recombinant E. coli GFP protein (His tag) ab119740

4 References [画像数 1](#)

製品の詳細

製品名	Recombinant E. coli GFP protein (His tag)
精製度	> 80 % SDS-PAGE. The purity was determined to be 80% by densitometry
発現系	Escherichia coli
アクセッション番号	<u>B6UPG7</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Escherichia coli
予測される分子量	39 kDa including tags
領域	1 to 238
タグ	His tag N-Terminus
製品の詳細	Recombinant <i>E. coli</i> GFP protein (His tag)

特性

Our **Abpromise guarantee** covers the use of **ab119740** in the following tested applications.

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

アプリケーション	Western blot
	SDS-PAGE
製品の状態	Liquid

前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 1.02% Imidazole Constituents: 0.002% PMSF, 0.71% Sodium phosphate, 0.005% DTT, 25% Glycerol (glycerin, glycerine), 1.75% Sodium chloride
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関連情報

関連性

Function: Energy-transfer acceptor. Its role is to transduce the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. Fluoresces in vivo upon receiving energy from the Ca^{2+} -activated photoprotein aequorin.

Subunit structure: Monomer.

Tissue specificity: Photocytes.

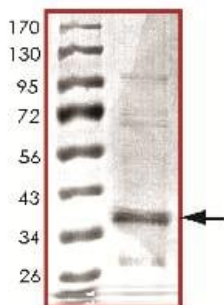
Post-translational modification: Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to dihydroxytyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.

Biotechnological use: Green fluorescent protein has been engineered to produce a vast number of variously colored mutants, fusion proteins, and biosensors. Fluorescent proteins and its mutated allelic forms, blue, cyan and yellow have become a useful and ubiquitous tool for making chimeric proteins, where they function as a fluorescent protein tag. Typically they tolerate N- and C-terminal fusion to a broad variety of proteins. They have been expressed in most known cell types and are used as a noninvasive fluorescent marker in living cells and organisms. They enable a wide range of applications where they have functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions. Can also be used as a molecular thermometer, allowing accurate temperature measurements in fluids. The measurement process relies on the detection of the blinking of GFP using fluorescence correlation spectroscopy.

Sequence similarities: Belongs to the GFP family.

Biophysicochemical properties: Absorption: Abs(max)=395 nm
Exhibits a smaller absorbance peak at 470 nm. The fluorescence emission spectrum peaks at 509 nm with a shoulder at 540 nm.

画像



SDS-PAGE - Recombinant *E. coli* GFP protein (His tag) (ab119740)

The purity of ab119740 was determined to be >80% by densitometry.

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