

Recombinant Enhanced GFP protein (His tag) ab134853

5 References

製品の詳細

製品名	Recombinant Enhanced GFP protein (His tag)
精製度	> 95 % SDS-PAGE. ab134853 was expressed in E.coli as soluble protein and was purified using a Ni-NTA column.
エンドトキシン・レベル	= 5.000 Eu/μg
発現系	Escherichia coli
アクセッション番号	<u>AF288620</u>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Aequorea victoria
配列	MGDIMGEWGNEIFGAIAGFLGVSKGEELFTGVVPILVELDGD VNGHKFSV SGEGEDATYGKLT LKFICTTGKLPVPWPTLVTTLTLYGVQCFSRYPDHMKQHDFFK SAMPEGYV QERTIFFKDDGNYK TRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNNSHN VYIMADKQ KNGIKVNFKIRHNI EDGSVQLADHYQQNTPIGDGPVLLPDNHYLSTQSALSKDPNE KRDHMVLL EFVTAAGITLGMDE LYKSRHRRHRQRSRSRAAARRRRRRRRRRHHHHHH
予測される分子量	33 kDa
領域	2 to 238
タグ	His tag C-Terminus
配列の追加情報	Second generation monomeric GFP (Enhanced GFP). Constructed with a N-terminal tag of HA2 peptide and C-terminal 9 arginine domain/His Tag.

特性

Our **Abpromise guarantee** covers the use of **ab134853** 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	SDS-PAGE
製品の状態	Liquid

備考	<p>This version of GFP is the second generation monomeric green fluorescent protein (Enhanced GFP) that has improved brightness and photostability.</p> <p>This EGFP-9R, have a single excitation peak centered at about 488 nm, with an emission peak wavelength of 509 nm.</p>
前処理および保存	
保存方法および安定性	<p>Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.</p> <p>Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)</p>
関連情報	
関連性	<p>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.</p> <p>Subunit structure: Monomer.</p> <p>Tissue specificity: Photocytes.</p> <p>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 didehydrotyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.</p> <p>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.</p> <p>Sequence similarities: Belongs to the GFP family.</p> <p>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.</p>

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