

GST-eGFP fusion protein, DYKDDDDK-tag

Product	Catalog No.	Package size
GST-eGFP fusion protein, DYKDDDDK tag (50 ug)	29921	1 x 50 µg
GST-eGFP fusion protein, DYKDDDDK tag (250 ug)	29923	1 x 250 µg

Product Description

Green Fluorescent Protein is a natural, autofluorescent protein from the jellyfish *Aequorea victoria* that is frequently used as a control protein in method development and calibration. Enhanced GFP (eGFP) is a mutated GFP with enhanced fluorescence signal and a slightly shifted excitation spectrum. Cube Biotech offers three variants of eGFP with His, GST, Rho1D4, and DYKDDDDK (also known as FLAG[®]) tags.

Protein class	beta-barrel, autofluorescent protein
Sequence	GFP , Thrombin cleavage site , HRV3C (PreScission) cleavage site , Spacer , DYKDDDDK tag
	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYY IDGDVKLTQSMAIIRYIADKHNLGCGPKERAEISMLEGAVLDIRYGVSRIAYSKDFE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAF PKLVCFKKRIEAIQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSLEVL FOGPM MRSGKGEELFTGVVPIVELDGDVNGHKFSVSGEGEGDATYGKLTCLKFICTTGKLPVPW PTLVTTLYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVN RIELKGIDFKEDGNILGHKLEYNNGHNVIYITADKQKNGIKANFKIRHNIEDGSVQLADHYQQN TPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMVLEFVTAAGITHGMDELYK GSSGDYKDD DDK
Affinity tags	GFP tag (N-terminus), DYKDDDDK (FLAG) tag (C-terminus)
Size	486 amino acids 55.5 kDa
Excitation maximum	488 nm
Fluorescence maximum	509 nm

Quality Control

Purity	>98% as determined by SDS-PAGE, see Figure 1
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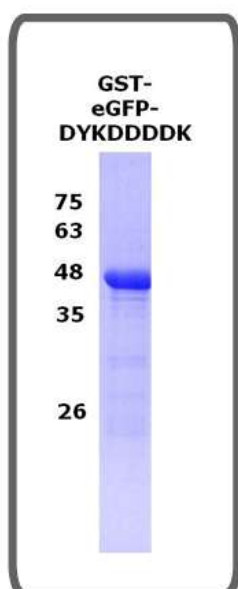


Fig. 1: SDS-PAGE of GST-eGFP-DYKDDDDK.

Preparation:

Expression system	<i>E. coli</i>
Purification	PureCube Glutathion Agarose
Buffer	Lyophilized from 10 mM Tris-HCl, pH 4.0
Re	Dissolve in a suitable volume of ddH ₂ O, e.g., 50 µL (50 µg aliquot) /250 µL (250 µg aliquot) to obtain a 1 mg/mL solution.
Quantity	50 and 250 µg aliquots

Applications

- SDS-PAGE
- Western Blot
- Protein Crystallization
- Biochemical and biophysical analyses

Shipping & Storage

Shipping conditions	Room temperature
Storage conditions	-20°C. Avoid freeze-thaw cycles
Important: GFP is light-sensitive and must be stored in the dark.	

Disclaimer: Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease. FLAG is a registered trademark of Sigma Aldrich.