

GST-eGFP fusion protein, Rho1D4-tag

Product	Catalog No.	Package size
GST-eGFP fusion protein, Rho1D4 tag (50 ug)	29911	1 x 50 µg
GST-eGFP fusion protein, Rho1D4 tag (250 ug)	29913	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, Rho1D4 tag
	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYY IDGDVKLTSMAIIRYIADKHNMLGGCPKERAISMLEGAVLDIRYGVSR IAYSKD FE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAF PKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSLEVL FOGPM MRSGKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLT LKFICTTGKLPVPW PTLVTTLTYGVQCFSRYPDHMKQHDFFSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVN RIELKGIDFKEDGNILGHKLEYNYNNGHNVIYITADKQKNGIKANFKIRHNIEDGSQLADHYQQN TPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMVLEFVTAAGITHGMDELYK GSSGTETSQV APA
Affinity tags	GFP tag (N-terminus), Rho1D4 tag (C-terminus)
Size	487 amino acids 55.4 kDa
Excitation maximum	488 nm
Fluorescence maximum	509 nm

Quality Control

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

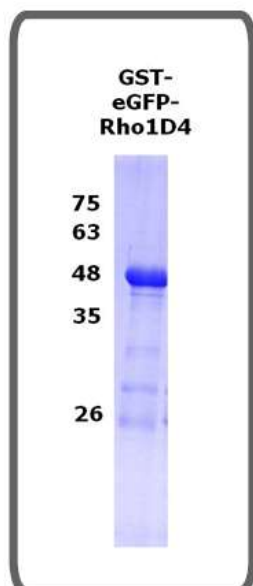


Fig. 1: SDS-PAGE of GST-eGFP-Rho1D4.

Preparation:

Expression system	<i>E. coli</i>
Purification	PureCube Rho1D4 Agarose
Buffer	Lyophilized from 10 mM Tris-HCl, pH 4.0
Reconstitution	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.