
Product Data Sheet

Product Name: Cy5 eGFP mRNA(5'CAP)

Cat. No.: GM10013

Chemical Properties

Purity		Extinction Coefficient	
Formula		M.Wt	
Salt Form		Concentration	1mg/mL
Buffer	1 mM Sodium Citrate, pH 6.4	Storage	-40°C or below
Synonyms		Backbone	
Base Analog		Sugar Type	
Nucleotide Category			

Background

Cy5 eGFP mRNA (5'CAP) is a green fluorescent protein mRNA transcribed in vitro by simulating mRNA processing in eukaryotes. Cy5 eGFP mRNA (5'CAP) carries Cy5 labeling(Cy5-UTP: UTP=3:1 (molar ratio)), Cap 1 cap structure, and poly (A) tail, which can effectively inhibit RNA mediated innate immune activation.

Green fluorescent protein eGFP is a fluorescent reporter gene commonly used in molecular biology research. Cy5 eGFP mRNA (5'CAP) can directly express proteins in the cytoplasm without relying on promoters, with a faster protein expression rate than transfected DNA. The protein expression level is directly related to the mRNA transfection level, and there is no risk of gene integration. After transfection of eGFP mRNA into cells, strong and bright green fluorescent protein can be expressed, with maximum excitation/emission wavelengths of 488/509nm, respectively. Cy5 is a commonly used cyanine fluorescent dye, with maximum excitation/emission wavelengths of 650/670nm, respectively.

Cy5 eGFP mRNA (5'CAP) can be used as a standard to detect the transfection efficiency of different transfection reagents, and can also be used as a control to study the

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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transfection, localization, and expression of fluorescent proteins in mammalian cells.

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