

Product Data Sheet

Product Name: mCherry mRNA (5'CAP)

Cat. No.: GM10009

Chemical Properties

mRNA Length	Concentration
Buffer	RNase Free Water
Storage	-40°C or below

Background

Red fluorescent protein mCherry is a fluorescent reporter gene commonly used in molecular biology research. mCherry mRNA can directly express proteins in the cytoplasm without relying on a promoter. The protein expression speed is faster than transfected DNA. The protein expression level is directly related to the transfection amount of mRNA, and there is no risk of gene integration. After mCherry mRNA is transfected into cells, it can express the strong and bright red fluorescent protein mCherry, with excitation/emission wavelengths of 587 nm/610 nm respectively. mCherry mRNA can be used as a standard to test the transfection efficiency of different transfection reagents, and can also be used as a control to study the transfection and expression of fluorescent proteins in mammalian cells.

By simulating the mRNA processing process in eukaryotes, the product has a Cap 1 cap structure at the 5' end and a poly(A) tail at the 3' end, which increases the stability and translation efficiency of the mRNA[1].

References:

[1]. Jemielity J, Fowler T, Zuberek J, et al. Novel "anti-reverse" cap analogs with superior translational properties. RNA. 2003;9(9):1108-1122

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

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