



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## EZ Cap™ mCherry mRNA (m1Ψ)

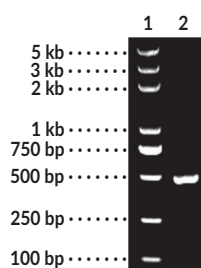
Item No. 41962

### Overview and Properties

**Synonym:** N<sup>1</sup>-Methylpseudouridine  
**Storage:** -80°C (as supplied)  
**Stability:** ≥6 months  
**Supplied in:** 1 mM Sodium citrate, pH 6.4  
**Concentration:** 1 mg/ml  
**EX./Em. Max:** 587/610 nm

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Image



Lane 1: Markers  
Lane 2: R1047 mRNA

EZ Cap™ mCherry mRNA (m1Ψ) was analyzed by 1.0% native TAE agarose gel.

**WARNING**  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**  
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# PRODUCT INFORMATION



## Description

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EZ Cap™ mCherry mRNA encodes for mCherry, a red fluorescent protein and derivative of *Discosoma* red fluorescent protein (DsRed) that displays excitation and emission maxima of 587 and 610 nm, respectively.<sup>1</sup> It is capped using a co-transcriptional capping method, resulting in the naturally occurring Cap 1 structure with high capping efficiency. EZ Cap™ mCherry mRNA is also polyadenylated and modified with N<sup>1</sup>-methylpseudouridine (m<sup>1</sup>Ψ) to reduce host cell immune response and enhance mRNA stability. Encapsulation of EZ Cap™ mCherry mRNA (m<sup>1</sup>Ψ) in lipid nanoparticles (LNPs) can be used for mRNA delivery and expression of mCherry fluorescent protein *in vitro* or *in vivo*.<sup>2</sup>

## References

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1. Shaner, N.C., Campbell, R.E., Steinbach, P.A., *et al.* Improved monomeric red, orange and yellow fluorescent proteins derived from *Discosoma* sp. red fluorescent protein. *Comparative Study* **22(12)**, 1567-1572 (2004).
2. Hamilton, A.G., Swingle, K.L., Joseph, R.A., *et al.* Ionizable lipid nanoparticles with integrated immune checkpoint inhibition for mRNA CAR T cell engineering. *Adv. Healthc. Mater.* **12(30)**, e2301515 (2023).

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