

## Product datasheet

# Recombinant mCherry protein (His tag) ab199750

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### Description

<b>Product name</b>	Recombinant mCherry protein (His tag)
<b>Purity</b>	> 97 % SDS-PAGE. Greater than or equal to 97% by HPLC.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>X5DSL3</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Anaplasma marginale
<b>Sequence</b>	MGSSHHHHHSSGLVPRGSHMVSKGEEDNMAIIKEFMRF KVHMEGSVNGH EFEIEGEGEGRPYEGTQTAKLKVTGGPLPFAWDILSPQF MYGSKAYVKH PADIPDYLKLSFPEGFKWERVMNFEDGGVVTVTQDSSLQ DGEFYKVKLR GTNFPSDGPVMQKKTMGWEASSERMYPEDGALKGEIKQ RLKLDGGHYDA EVKTTYKAKKPVQLPGAYNVNIKLDITSHNEDYTIVEQYERA EGRHSTGG MDELYK
<b>Predicted molecular weight</b>	29 kDa including tags
<b>Amino acids</b>	1 to 236
<b>Tags</b>	His tag N-Terminus
<b>Additional sequence information</b>	pI: 6.23. Ex.= 587 nm (540-590 nm); Em.= 610 nm (550-650 nm).

### Specifications

Our **Abpromise guarantee** covers the use of **ab199750** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
	HPLC

<b>Form</b>	Lyophilized
<b>Additional notes</b>	<p>This product is manufactured by BioVision, an Abcam company and was previously called 4993 mCherry Fluorescent Protein. 4993-100 is the same size as the 100 µg size of ab199750.</p> <p>Store lyophilized protein at -20°C. For long-term storage, aliquot and store at -80°C.</p> <p>mCherry is the second generation monomeric red fluorescent protein that has improved brightness and photostability. The protein is suitable as a positive control for mCherry protein expression studies or as a labeling reagent. The recombinant mCherry protein is ideal for fusion tag applications and is perfect for triple labeling with EGFP, CFP, YFP, or any other dyes. The protein is engineered with 6xHis-tag on the N-terminus, which can be used for detection with anti-His-Tag antibody or protein purification/removal by using Ni<sup>++</sup> beads.</p> <p>Endotoxin level: &lt;0.1 ng/µg</p>

## Preparation and Storage

<b>Stability and Storage</b>	<p>Store at -80°C. Please see notes section.</p> <p>pH: 7.40</p> <p>Constituents: 10.269% Trehalose, 0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate</p>
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## General Info

<b>Relevance</b>	<p>mCherry is derived from proteins originally isolated from <i>Cnidarians</i> (jelly fish, sea anemones and corals), and is used as a fluorescent tracer in transfection and transgenic experiments. The prototype for these fluorescent proteins is Green Fluorescent Protein (GFP), which is a ~27kDa protein isolated originally from the jellyfish <i>Aequoria victoria</i>. The mCherry protein is derived from DsRed, a red fluorescent protein related to GFP isolated from so-called disc corals of the genus <i>Discosoma</i>.</p>
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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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