



Red Fluorescent Protein dsRED

Cat. No.	size
E4704-01	100 µg

Concentration: 1 mg/ml, determined with Bradford protein assay.

Quality Control:

All preparations are assayed for contaminating endonucleases, exonucleases, nonspecific RNases, single- and double-stranded DNase activities. Greater than 90% as determined by SDS-PAGE.

References:

1. *J. Phys. Chem. B* 2001, 105, 21, 5048–5054.

C-terminal HIS-tagged full-length Red Fluorescent Protein, expressed in *E. coli*.

Description:

dsRed, a tetrameric fluorescent protein cloned from the *Discosoma* genus of coral, has a longer wavelength substitute for green fluorescent protein (GFP) mutants for *in vivo* protein labeling. Bulk and single-molecule studies of the recombinant protein revealed that the dsRed chromophore shows high stability against photobleaching as compared to GFP mutants (1).

Fluorochrome activity: excitation 558 nm
emission 583 nm

Format: liquid

Storage buffer: 100 mM NaCl, 50 mM Tris-HCl (pH 8.0), 0.1 mM EDTA, 1 mM DTT, 50% glycerol.

Storage conditions: Store at 4°C (short term). Aliquot and store at -20°C (long term).

Applications: ICC, WB, IHC, IF

Immunogen: Full length recombinant dsRED protein