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## PRODUCT: rDsRed-Express Protein

**CATALOG No.** 632437

**AMOUNT:** 100 µg

**LOT NUMBER**

Specified on product label.

**STORAGE BUFFER**

PBS, 10 mM EDTA, 10% glycerol

**STORAGE CONDITIONS**

Store at -20°C.

**SHELF LIFE**

1 year from date of receipt under proper storage conditions.

**SHIPPING CONDITIONS**

Dry ice (-70°C)

**DESCRIPTION**

Affinity purified recombinant *Discosoma* sp. red fluorescent protein (rDsRed-Express). rDsRed-Express can be used as a standard for protein gels, Western blots, fluorometry, and fluorescence activated cell sorting (FACS). It can also be used as a control for DsRed-Express expression studies and for microinjection into cells and tissues. At its N-terminus, rDsRed-Express contains a 6xHN epitope tag, used for purification of the protein by metal ion affinity chromatography (IMAC) with our TALON™ Resin. An enterokinase (EK) site, located between the tag and DsRed-Express, makes it possible to remove the 6xHN polypeptide if desired. The 6xHN tag does not interfere with the protein's characteristic spectral properties (1).

**PACKAGE CONTENTS**

- 1 tube rDsRed-Express Protein (1.0 mg/ml)

**FOR RESEARCH USE ONLY**

**QUALITY CONTROL DATA**

The purity of the recombinant protein was analyzed by SDS-polyacrylamide gel electrophoresis with Coomassie blue staining. A major band with an apparent molecular mass of between 30–35 kDa was observed. (Though DsRed-Express has a calculated mass of ~25.7 kDa, it usually runs above 29 kDa on SDS-polyacrylamide gels.) A minor band, representing a possible cleavage product (2), with an apparent molecular mass of about 22 kDa, may also be observed under some conditions.

In addition, the purity and functionality were checked by analyzing the absorption spectrum between 240 and 740 nm. The ratio between the absorbances at 557 nm and 280 nm was >0.5.

**REFERENCE**

1. Living Colors DsRed-Express (July 2002) *Clontechniques XVIII* (3):16–17.
2. Gross, L. A., et al. (2000) *Proc. Natl. Acad. Sci. USA* **97**:11990–11995.



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DsRed-Express:

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