

**SCD Hu-Cy5  
SmartFlare™  
RNA Detection Probe**

**Cat. # SF-3190**

**pack size: 50µL (250 rxns)**

Store at 2-8°C,  
after reconstitution store at 23-27°C  
**DO NOT FREEZE**

FOR RESEARCH USE ONLY.  
NOT FOR USE IN DIAGNOSTIC PROCEDURES.  
NOT FOR HUMAN OR ANIMAL CONSUMPTION



**Product Data Sheet**

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**Validated Accession #: NM\_005063.4**

**Species: Hu**

**Gene Aliases: SCD1; FADS5;  
SCDOS; MSTP008**

**Confirmation of SCD SmartFlare Performance:**

SCD SmartFlare probe has been tested in a buffer system to detect the release of the fluorophore in the presence of a complementary base pair sequence for each lot to confirm target specificity.

SCD SmartFlare probe has also been tested in a cell model system and demonstrated increased fluorescence in cells expressing the target compared to a scrambled negative control SmartFlare probe (Figure 1).

| Mean Fluorescence Intensity (MFI) Values |                    |                   |
|--|--------------------|-------------------|
| Unflared                                 | Scrambled          | SCD               |
| 7.7400000000000002                       | 45.420000000000002 | 700.0399999999999 |

**Figure 1:** SCD Mean Fluorescence Intensity (green) measured by flow cytometry in living HeLa cells demonstrated a significant increase over unflared cells (blue) as well as scramble control (red). Data shown in graph is representative.

**Storage and Handling:**

Material has been 0.22µm filtered. Stable for 5 years at 2-8°C degrees in lyophilized format ONLY. Room temperature is required for reconstituted product.

**Warning-after reconstitution product is sensitive to cold and hot temperatures, a stable room temperature of 23-27°C is required.**

**Handling Recommendations:**

Reconstitute with sterile nuclease free water in a drop wise fashion and tap tube repeatedly to fully dissolve lyophilized material. Vortex for 5-10 sec.

Upon reconstitution, store at room temperature for up to 1 year protected from light. Product must be handled with gloves as product can be absorbed through the skin.

**Recommended Cell Testing Protocol:**

**(example: 30,000 cells in a 200µL media volume within each well of a 96 well plate)**

- Reconstitute reagent in 50µL of sterile nuclease free water.
- Create a working solution based on your experiment by diluting 1:20 in sterile PBS.
- Add 4µL directly to cells (at approx 80% confluency).
- Allow to incubate overnight for 16 hrs.
- Detect using fluorescence detection platform of choice.

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**SPECIES LEGEND:** Hu Human Ms Mouse Rt Rat Rb Rabbit WR Most Common Vertebrates ( ) Predicted Reactivity

**Please visit [www.millipore.com/SmartFlare](http://www.millipore.com/SmartFlare) for additional product information.**

EMD Millipore Corporation, 28820 Single Oak Drive, Temecula, CA 92590, USA 1-800-437-7500

Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502

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