18S Hu/Ms/Rt-Cyanine 5 SmartFlare™

RNA Detection Probe

Cat. # SF-142

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

Validated Accession #: NR_003286.2, NR_003278.3, NR_046237.1

Species: Hu, Ms, Rt

Gene Aliases: RNA18S5; RN18S1

Confirmation of 18S SmartFlare Performance:

18S 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.

18S 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			
Cell Model	Unflared	Scrambled	18S
HeLa	5.03	43.37	493.81
Hepa-1-6	18.2	71.48	195.42
B35	9.97	19.65	249.02

Figure 1: 18S Mean Fluorescence Intensity measured by flow cytometry in living HeLa,Hepa-1-6, and B35 cells (green), 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 for additional product information.

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