

Recombinant Human Frataxin

MSF42

Rev.3

DESCRIPTION

Recombinant human frataxin (residues 56-210) for generating a standard curve for use with both MSF41 Frataxin Microplate Assay Kit and MSF31 Frataxin Dipstick Assay Kit.

Sufficient materials are provided for duplicate measurements of a serial dilution series starting at 2.4 ng/well for MSF41 and 0.6 ng/dipstick for MSF31.

Kit Contents:

Item	Amount
Recombinant human frataxin (with 1 mg/mL BSA)	12 ng (60 μ L at 0.2 ng/ μ L)

Storage: Store at -80°C (avoid freeze/thaw cycles)

Usage:

Recombinant frataxin protein is for use in conjunction with the Frataxin microplate kit MSF41, and the Frataxin dipstick kit MSF31.

A suggested dilution series is described below for the microplate MSF41. However, a dilution series containing less frataxin within the working range of the assay (0.2-12.5 ng/mL) could be used if desired.

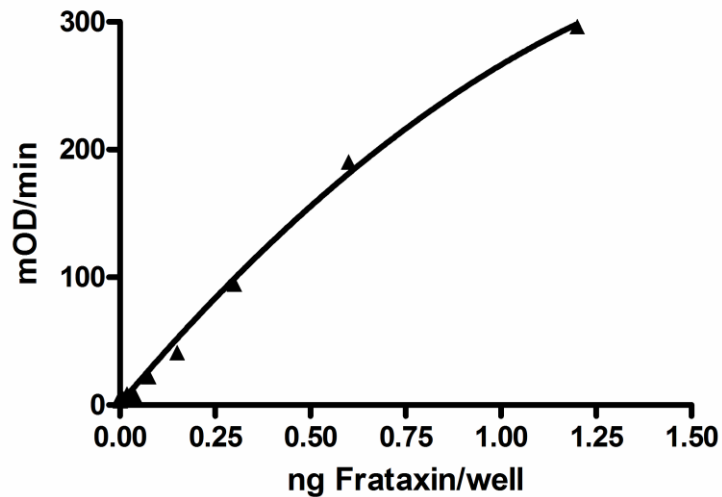
Note: To set up a dilution series for the dipstick assay MSF31 a similar series could be set up where Incubation buffer is replaced by a Buffer composed of 1 part Disptick buffer A : 1 part dipstick buffer B. For loading, 50 μ L of serial dilution is added to the wells containing dried gold conjugated antibody.

EXAMPLE DILUTION SERIES

1. Add 0.5 mL of Incubation Buffer to each of seven tubes labeled B, C, D, E, F, G, and H
2. Transfer the 0.06 mL frataxin solution to a tube labeled Tube A. Add 0.94 mL of Incubation Buffer. Mix well.
3. Take 0.5 mL of Tube A and add to B. Mix well.
4. Take 0.5 mL of Tube B and add to C. Mix well.
5. Take 0.5 mL of Tube C and add to D. Mix well.
6. Take 0.5 mL of Tube D and add to E. Mix well.
7. Take 0.5 mL of Tube E and add to F. Mix well.
8. Take 0.5 mL of Tube F and add to G. Mix well.
9. Do NOT add anything to Tube H. See Figure 1 for schematic.

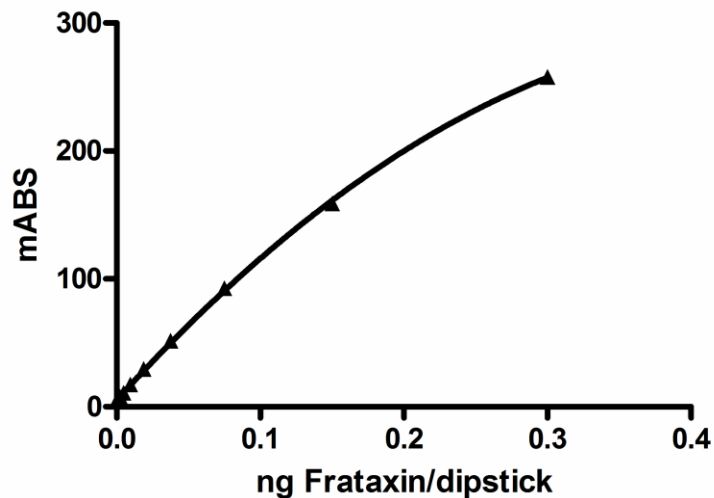
PLATE LOADING

1. Take 0.2 mL from Tube A and add to well A1. Take 0.2 mL Tube A and add to A2.
2. Take 0.2 mL from Tube B and add to well B1. Take 0.2 mL Tube B and add to B2.
3. Repeat for samples C, D, E, F, G and H.
4. The dilution series is now complete. Load samples into desired wells (any of wells A3 through H12), and proceed from step B1 in the microplate protocol. See Figure 2 for schematic.



An example of a similar dilution series of pure frataxin using the Mitoprofile™ Frataxin Microplate, MSF41.

When using the MSF31 Dipstick protocol - 50 μ L from Dilution Series Tubes A through H are transferred into the wells containing dried gold conjugated antibody (protocol Step B6)



An example of a similar dilution series of pure frataxin using the Mitoprofile™ Frataxin Dipsticks, MSF31.