Millipore®

Preparation, Separation,
Filtration & Monitoring Products

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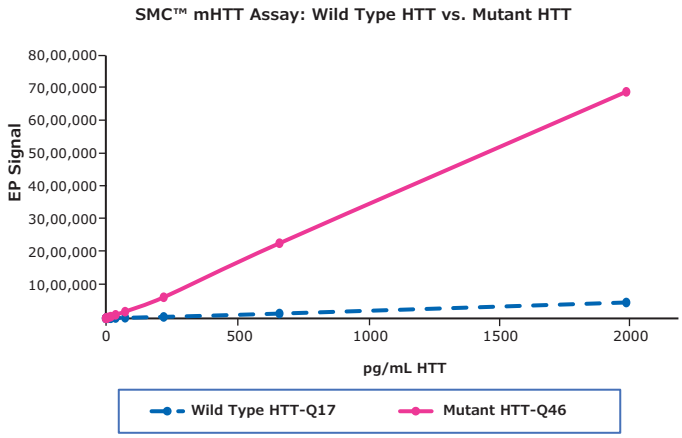
# Sample Testing Services for Measuring Mutant Huntingtin Protein in Cerebrospinal Fluid (CSF) and Brain Homogenates/Lysates

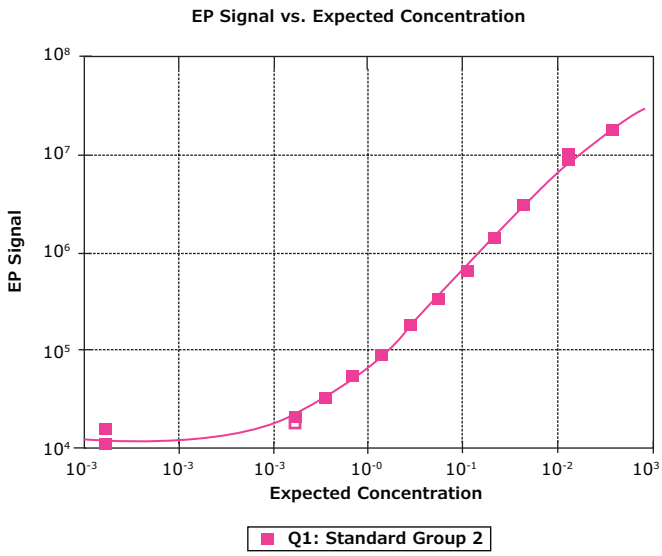
Huntington's Disease (HD) is a progressive brain disorder caused by a defect in the Huntingtin gene. HD is caused by a mutated form of the huntingtin gene, where excessive (more than 36) Glutamine repeats result in formation of an unstable protein. This affects 5-10 in 100,000 people of European descent and is characterized by a decline in cognitive function as well as uncontrolled movement of the body. Mutant huntingtin protein (mHTT) is a key factor in neurodegeneration and accurate analysis in low levels is critical to accelerating research to ultimate find a cure for the disease.

We are happy to offer sample testing services through our SMC™ Custom Assay/Sample Testing (CAST) team to measure mutant Huntingtin protein in your critical samples with our highly validated assay offering:

- Measurement down to 0.35 pg/ml for mHTT-Q45 (1-573)
- Measurement in Rat and Human Cerebrospinal Fluid (CSF) and cell lysates.
- Small sample volumes required (10 µL of CSF per well)
- Assay is specific to Mutant Huntingtin (HTT) Protein (>36 poly-glutamine sequence repeats). Assay does not detect Wild type HTT (<23 poly-glutamine sequence repeats.




| HTT | Description | LLOQ (pg/mL) | MW (g/mol) | M | LLOQ (fM) | Binding Affinity |
|---|---|---|---|---|---|---|
| Q17 | (1-3144) full length | 74.1 | 352,178 | 2.10.E-13 | 210.40 | Very Low |
| Q46 | (1-3144) full length | 2.31 | 355,894 | 6.49.E-15 | 6.49 | High |




Typical Standard Curve using mHTT-Q45 [pg/mL]

**Contact your sales specialist for more information.**



Lit. No. MS_FL3166EN Ver 1.0 2018 - 18040 11/2018