

R1553NP**Huntingtin control peptide****Alternate names:**

HD, HTT, Huntington Disease Protein, IT15

Quantity:

50 µg

Concentration:

1.0 mg/ml (by weight)

Background:

Huntington's disease (HD) is a neurodegenerative disorder caused by an expanding polyglutamine repeat in the huntingtin gene. HD is a mid-life onset autosomal dominant neurodegenerative disease that is characterized by psychiatric disorders, dementia, and involuntary movements (chorea), leading to death in 10-20 years. The HD gene product is widely expressed in human tissues, with the highest level of expression in the brain. The huntingtin gene product is expressed at similar levels in patients and controls, which suggests that the expansion of the polyglutamine repeat induces a toxic gain of function perhaps through interactions with other cellular proteins. Using yeast two-hybrid system, HAP1 (huntingtin associated protein 1) has been identified, that associates with huntingtin protein. The In vitro data suggest that the association between HAP1 and huntingtin is enhanced by increasing length of glutamine repeat.

Uniprot ID:[P42858](#)**NCBI:**[NP_002102.4](#)**GeneID:**[3064](#)**Format:****State:** Liquid (sterile filtered) .**Buffer System:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% sodium azide as preservative.**Applications:**

Intended for use as a control peptide when used with anti-Anti-Huntingtin pS421 to block specific interaction of anti-Huntingtin with Huntingtin. Control peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Add. Information:

Peptide Sequence: acetyl-R-S-R-S-G-S-I-V-E -amide (aa 416-424 of the human huntingtin gene protein).

Purity: Greater than 95% specific peptide.

Peptide MW: 1134 daltons.

Storage:

Store vial at -70°C or below prior to opening. Dilute only prior to immediate use.

Aliquot contents and freeze at -70° C or below.

Avoid cycles of freezing and thawing.

Shelf life: one year from despatch.

Recommended Control Peptides:

R1553CP