

Recombinant Human HTT Protein, His-Tagged

Cat. No. HTT-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HTT Protein with His Tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-940 aa
Description	Huntingtin is a disease gene linked to Huntington's disease, a neurodegenerative disorder characterized by loss of striatal neurons. This is thought to be caused by an expanded, unstable trinucleotide repeat in the huntingtin gene, which translates as a polyglutamine repeat in the protein product. A fairly broad range of trinucleotide repeats (9-35) has been identified in normal controls, and repeat numbers in excess of 40 have been described as pathological. The huntingtin locus is large, spanning 180 kb and consisting of 67 exons. The huntingtin gene is widely expressed and is required for normal development. It is expressed as 2 alternatively polyadenylated forms displaying different relative abundance in various fetal and adult tissues. The larger transcript is approximately 13.7 kb and is expressed predominantly in adult and fetal brain whereas the smaller transcript of approximately 10.3 kb is more widely expressed. The genetic defect leading to Huntington's disease may not necessarily eliminate transcription, but may confer a new property on the mRNA or alter the function of the protein. One candidate is the huntingtin-associated protein-1, highly expressed in brain, which has increased affinity for huntingtin protein with expanded polyglutamine repeats. This gene contains an upstream open reading frame in the 5'

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	UTR that inhibits expression of the huntingtin gene product through translational repression.
Form	Sterile PBS, pH7.4, 0.1 % SKL
AASequence	MGSSHHHHHSSGLVPRGSHMATLEKLMKAFESLKSFQQQQQQQQQQQQQQQQQQQ QQQQQQPPPPPPPPPPPPQLPQPPPQAQPLLPQPQPPPPPPPPPPGPAVAEEPLHRP KKELSATKKDRVNHCLTICENIVAQSVRNSPEFQKLLGIAMELFLLCSDDAESDVRMV ADECLNKVIKALMDSNLPRLQLELYKEIKKNGAPRSLRAALWRFAELHLVRPQKCR PYLVNLLPCLTRTSKRPEESVQETLAAAVPKIMASFGNFANDNEIKVLLKAFIANLKSS SPTIRRTAAGSAVSICQHSRRTQYFYSWLLNVLLGLLVPVEDEHSTLLILGVLLTLRYL VPLLQQQVKDTSKGSFGVTRKEMEVSPPSAEQLVQVYELTLHHTQHGDHNVVTGAL ELLQQLFRTPPELLQTLTAVGGIGQLTAAKEESGGRSRSGSIVELIAGGGSSCSPVL SRKQKKGKVLLGEEEELEDDSESRSVDVSSSALTASVKDEISGELAASSGVSTPGSAG HDIITEQPRSQHTLQADSVDLASCDLTSSATDGDEEDILSHSSSQVSAVPSDPAMD NDGTQASSPISDSSQTTEGPDSAVTPSDSSEIVLDGTDNQYLGLQIGQPQDEDEEA TGILPDEASEAFRNSSMALQQAHLKKNMSHCRQPSDSSVDKFVLRDEATEPGDQEN KPCRIGDIGQSTDDDSAPLVHCVRLLSASFLTGGKNVLPDRDVRVSVKALALSC VGAVALHPESFFSKLYKVPLDTTEYPEEQYVSDILNYIDHGDQPQVRGATAILCGTLIC SILSRSRFHVGDMGTIRTTLTGNTFSLADCIPLLRKTLKDESSVTCKLACTAVRNCVM SLCSSSYSELGLQLIIDVLTNRNSSFYWLVRTELLETAEIDFRLVSFLEAKAENLHRGA HHYTGLLKLQERVLNNVVIHLLGDEDPRVRHVAAASLIRLVPKLFY
Endotoxin	< 1 EU/μg by LAL
Purity	> 90 % by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 1 mg/mL by BCA

GENE INFORMATION

Gene Name HTT huntingtin [Homo sapiens (human)]

Official Symbol HTT

Synonyms HTT; huntingtin; HD, huntingtin (Huntington disease); IT15; huntington disease protein; HD

Gene ID 3064

mRNA Refseq NM_002111

Protein Refseq NP_002102

MIM 613004

UniProt ID P42858

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