

Recombinant Full Length Human DDX3Y Protein, His-tagged

Cat. No. DDX3Y-3751H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DDX3Y Protein (1-660 aa) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-660 aa
Description	The protein encoded by this gene is a member of the DEAD-box RNA helicase family, characterized by nine conserved motifs, included the conserved Asp-Glu-Ala-Asp (DEAD) motif. These motifs are thought to be involved in ATP binding, hydrolysis, RNA binding, and in the formation of intramolecular interactions. This protein shares high similarity to DDX3X, on the X chromosome, but a deletion of this gene is not complemented by DDX3X. Mutations in this gene result in male infertility, a reduction in germ cell numbers, and can result in Sertoli-cell only syndrome. Pseudogenes sharing similarity to both this gene and the DDX3X paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants encoding different isoforms.
Tag	His
Molecular Mass	~ 74 kDa
AA Sequence	HHHHHHMSHVVKNDPELDQQLANLDLNSEKQSGGASTASKGRYIPPHLRNREAS

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KGFHDKDSSGWSCSKDKDAYSSFGSRDSRGKPGYFSESGSGSRGRFDDRGRSDY
 DGIGNRERPGFGRFERSGHSRWCDKSVEDDWSKPLPPSERLEQELFSGGNTGINF
 EKYDDIPVEATGSNCPPHIENFSDIDMGEIIMGNIELTRYTRPTPVQKHAIPKGRDL
 MACAQTGSGKTA AFLLPILSQIYTDGPGEALKAVKENG RYGRRKQYPISLVLAPTREL
 AVQIYEEARKFSYRSRVRPCVVYGGADIGQQIRD LERGCHLLVATPGRLVDMMERG
 KIGLDFCKYLV LDEADRMLDMGFEPQIRRIVEQDTMPPKGV RHTMMFSATFPKEIQM
 LARDFLDEYIFLAVGRVGSTSENITQKV VVEDLDKRSFLLDILGATGSDSLTLVFVE
 TKKGADSLED FLYHEGYACTSIHGDRSQRDREEALHQFRSGKSPILVATAVAARGLD
 ISNVRHVINF DLPSDIEEYVHRIGRTGRVGNLGLAT SFFNEKNMNITKDLLDLLVEAKQ
 EVPSWLENMAYEHYKGGSRGRSKSNRFSGGFGARDYRQSSGSSSSGFGASRGS
 SSRSGGGGYGNSRGFGGGGYGGFYNSDG YGGNYNSQGVDWWGN

Endotoxin < 10 EU/mL (determined by the LAL method)

Purity ≥ 90% by SDS-PAGE

Storage Long Term Storage at -20 centigrade to -80 centigrade. Avoid freeze/thaw cycles.

Storage Buffer PBS buffer

Concentration 0.15 mg/mL

GENE INFORMATION

Gene Name DDX3Y DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked [Homo sapiens (human)]

Official Symbol DDX3Y

Synonyms DDX3Y; DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked; DBY, DEAD/H (Asp Glu Ala Asp/His) box polypeptide, Y chromosome; ATP-dependent RNA helicase

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DDX3Y; DEAD box protein 3, Y-chromosomal; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide, Y chromosome; DBY	
Gene ID	8653
mRNA Refseq	NM_001122665
Protein Refseq	NP_001116137
MIM	400010
UniProt ID	O15523
SDS-PAGE analysis of purified recombinant DDX3Y.	Lane M: protein marker

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