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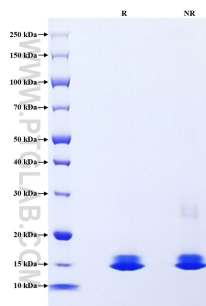
Recombinant Human TDP-43 protein (His Tag)



Catalog Number: Eg1877

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human TDP-43 protein Met1-Thr103 (Accession# Q13148-1) with a His tag at the C-terminus. GeneID: 23435 Accession: Q13148-1 Predicted Molecular Mass: 12.5 kDa SDS-PAGE: 14-17 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	TARDBP was firstly found as a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. It was also reported to regulate alternate splicing of the CFTR gene. Neumann et al. (2006) found that a hyperphosphorylated, ubiquitinated, and cleaved form of TARDBP, known as pathologic TDP43, is the major disease protein in ubiquitin-positive, tau-, and alpha-synuclein-negative frontotemporal dementia (FTLD-U) and in Amyotrophic lateral sclerosis (ALS).		
References	1. Neumann M, et al. (2006) Science. 314(5796):130-3. 2. Foulds PG, et al. (2006) Acta Neuropathol. 118(5):647-58. 3. Guo W, et al. (2011) Nat Struct Mol Biol. 18(7):822-30. 4. Dharmalingam K, et al. (2012) J Ethnopharmacol. 139(2):657-63.		
Synonyms	TARDBP, TDP 43, TDP43, TDP-43, ALS10		
For technical support and original validation data for this product please contact			
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)		E: proteintech@ptglab.com W: ptglab.com	
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Selected Validation Data



Purity of Recombinant Human TDP-43 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.