

Active Recombinant Human TP53 R175H (HLA-A*02:01) Tetramer Protein, C-His/Avi tagged

Cat. No. TP53-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human P53 R175H (HLA-A*02:01) Tetramer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and HMTEVVRHC peptide.
Species	Human
Source	HEK293
ProteinLength	Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M)and HMTEVVRHC peptide
Description	p53 is a tumor suppressor protein. Under stressful conditions, p53 tightly regulates cell growth by promoting apoptosis and DNA repair. When p53 becomes mutated, it loses its function, resulting in abnormal cell proliferation and tumor progression. Depending on the p53 mutation, it has been shown to form aggregates leading to negative gain of function of the protein.p53 mutant associated aggregation has been observed in several cancer tissues and has been shown to promote tumor growth.
Bio-activity	Immobilized Human P53 R175H (HLA-A*02:01) Tetramer, His Tag at 5ug/ml (100ul/well) on the plate. Dose response curve for Anti-P53 R175H (HLA-A*02:01) Antibody , hFc Tag with the EC50 of 9.7ng/mL determined by ELISA. See testing image for detail.
Molecular Mass	The protein has a predicted MW of 258 kDa. Due to glycosylation, the protein

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	migrates to 260-265 kDa under Non reducing (N) condition based on the Tris-Bis PAGE result.
Endotoxin	Less than 1 EU/μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Stability	Reconstituted protein stable at -80 centigrade for 12 months, 4 centigrade for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as a protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration of more than 100 μg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Shipping	Shipped at ambient temperature.

GENE INFORMATION

Gene Name	TP53 tumor protein p53 [Homo sapiens (human)]
Official Symbol	TP53
Synonyms	TP53; tumor protein p53; P53; BCC7; LFS1; BMFS5; TRP53; cellular tumor antigen p53; antigen NY-CO-13; mutant tumor protein 53; phosphoprotein p53; transformation-related protein 53; tumor protein 53; tumor supressor p53
Gene ID	7157
mRNA Refseq	NM_000546

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_000537
MIM	191170
UniProt ID	P04637

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA