



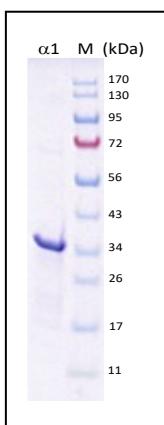
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## Recombinant TR $\alpha$ 1-LBD (E coli)

Catalog Number	Size
AG242-10	10ug
AG242-25	25ug
AG242-B	Bulk

### Description

The ligand-binding domain (LBD/148-410) of the thyroid hormone receptor alpha 1 (TR $\alpha$ 1) was expressed in the E coli system and purified by the combination of Ni-affinity column and other conventional chromatographic methods. The resulted protein contains 275 amino acids with a 6His tag at the N-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 32kDa.



MHHHHHHGGG EFEEMIRSLQ QRPEPTPEEW DLIHIAATEAH  
RSTNAQGSHW KQRRKFLPDD IGQSPIVSMP DGDGVLDLEAF  
SEFTKIIITPA ITRVVDFAKK LPMFSELPCE DQIILLKGCC  
MEIMSLRAAV RYDPESDTLT LSGEMAVKRE QLKNGGLGVV  
SDAIFELGKS LSAFNLDDE VALLQAVLLM STDRSGLLCV  
DKIEKSQEAY LLAFEHYVNH RKHNIPHFWP KLLMKVTDLR  
MIGACHASRF LHMKVECPTE LFPPLFLEVF EDQEVE\*

### Source

*E coli*

### Molecular Mass

Approximately 32kDa.

### Purity

$\geq 90\%$ , as determined by SDS-PAGE.

### Biological Activity

Thyroid hormone receptor alpha 1 (TR $\alpha$ 1) is a member of nuclear hormone receptor family and functions as a ligand-activated transcription factor. The recombinant TR $\alpha$ 1-LBD protein is suitable for the studies of transcription assays, protein-protein/protein-ligand interaction and other related function assays.

### Formulation

20mM Tris-Cl (pH7.9), 20% glycerol 100mM NaCl, 1mM DTT and 1mM EDTA.

### Storage

The protein sample can be stored under sterile conditions at 2-8°C for one month or at -20°C to -70°C for three months without detectable loss of activity. (***Avoid repeated freeze-thaw cycle***)

**FOR RESEARCH USE ONLY!!!**