



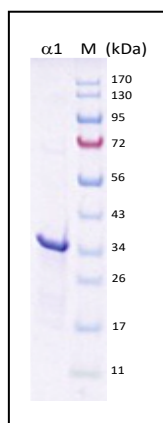
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## Recombinant TR $\alpha$ 1-LBD (E coli)

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 EFEEEMIRSLQ QRPEPTPEEW DLIHIATEAH
RSTNAQGSHW KQRRKFLPDD IGQSPIVSMP DGDKVDLEAF
SEFTKIITPA ITRVVDFAKK LPMFSELPCE DQIILLKGCC
MEIMSLRAAV RYDPESDTLT LSGEMAVKRE QLKNGGLGVV
SDAIFELGKS LSAFNLDDTE VALLQAVLLM STDRSGLLCV
DKIEKSQEAY LLAFEHYVNH RKNHNPFWP KLLMKVTDLR
MIGACHASRF LHMKVECPTE LFPPLFLEV F EDQEV*
```

### Source

*E coli*

### Molecular Mass

Approximately 32kDa.

### Purity

≥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!!!**