

TSH alpha & beta Heterodimer Recombinant Protein | CGA&TSHB recombinant protein

Recombinant Human TSH alpha & beta Heterodimer Protein (His Tag), HPLC-verified

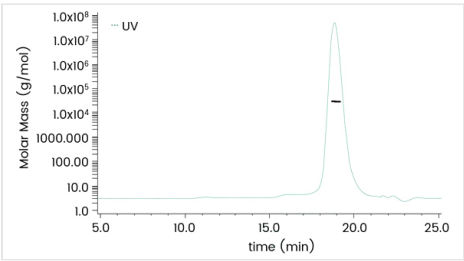
CATALOG # AAA259317	HOST HEK293 Cells	REACTIVITY Human
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PRODUCT SYNONYMS

TSH alpha & beta Heterodimer; Recombinant Human TSH alpha & beta Heterodimer Protein (His Tag); HPLC-verified; Human TSH alpha & beta Heterodimer Protein (His Tag); CGA&TSHB recombinant protein

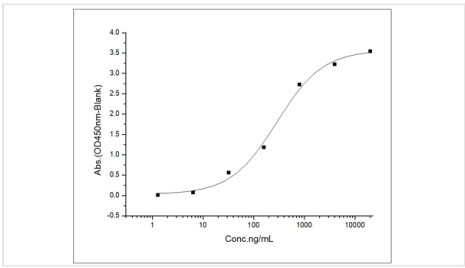
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Reactivity	Human
Purity/Purification	>= 95% as determined by SDS-PAGE. >= 95% as determined by SEC-HPLC. >= 95% as determined by SEC-MALS (Routinely tested).
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Ala25-Ser116&Phe21-Val138
Tag	C-His
Predicted N Terminal	Ala 25 & Phe 21
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Human TSH alpha (P01215)(Ala25-Ser116) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the Human TSH beta (P01222)(Phe21-Val138) was expressed, constructed the plasmid 2. The two plasmids were co-expressed and the Human TSH alpha & beta Heterodimer was purified.
Activity	Label Recombinant Human TSH alpha & beta Heterodimer Protein (His Tag) with biotin. Immobilized Recombinant Human TSH Receptor/TSR (His Tag) at 2ug/ml (100ul/well) can bind biotinylated Recombinant Human TSH alpha & beta Heterodimer Protein, the EC50is 150-450ng/mL (Routinely tested).
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.



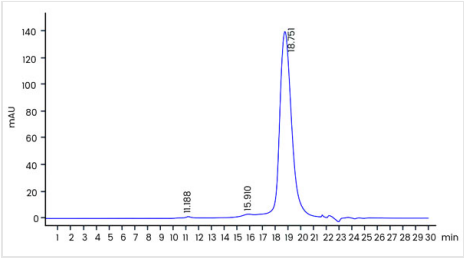
Application Data

Recombinant Human TSH alpha & beta Heterodimer Protein, His Tag, HPLC-verified .

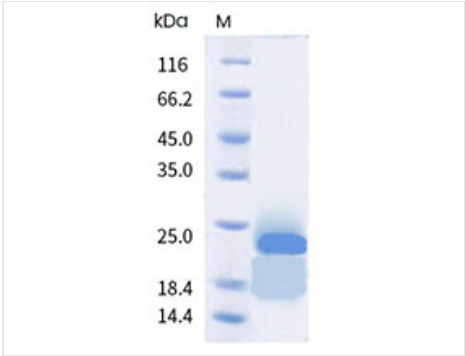


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Label Recombinant Human TSH alpha & beta Heterodimer Protein (His Tag)(#AAA259317) with biotin. Immobilized Recombinant Human TSH Receptor/TSR (His Tag) at 2ug/ml (100ul/well) can bind biotinylated Recombinant Human TSH alpha & beta Heterodimer Protein, the EC50is 150-450ng/mL (Rountinely tested).



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NCBI AND UNIPROT INFORMATION

NCBI GI #	546845
NCBI GeneID	1081
UniProt Accession #	P01215; P01222
Molecular Weight	13,075 Da
NCBI Official Full Name	thyroid-stimulating hormone alpha subunit
NCBI Official Synonym Full Names	glycoprotein hormones, alpha polypeptide
NCBI Official Symbol	CGA
NCBI Official Synonym Symbols	HCG; LHA; FSHA; GPHA; TSHA; GPHA1; CG-ALPHA
NCBI Protein Information	glycoprotein hormones alpha chain; FSH-alpha; LSH-alpha; TSH-alpha; lutropin alpha chain; follitropin alpha chain; thyrotropin alpha chain; choriogonadotropin alpha chain; luteinizing hormone alpha chain; chorionic gonadotrophin subunit alpha; thyroid-sti
UniProt Protein Name	Glycoprotein hormones alpha chain
UniProt Gene Name	CGA
UniProt Synonym Gene Names	CG-alpha; FSH-alpha; LSH-alpha; TSH-alpha
UniProt Entry Name	GLHA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.