

CGA-CGB3 Heterodimer Protein, Human (HEK293, His)

Cat. No.:	HY-P7870
Synonyms:	rHuGlycoprotein hormones alpha chain, C-Flag&Choriogonadotropin subunit beta 3, His; Anterior pituitary glycoprotein hormones common subunit alpha; Choriogonadotropin alpha chain; Chorionic gonadotrophin subunit alpha; CG-alpha; Follicle-stimulating hormone alpha chain; FSH-alpha; Follicle-stimulating hormone alpha chain; Luteinizing hormone alpha chain; LSH-alpha
Species:	Human
Source:	HEK293
Accession:	P01215 (A25-S116)&P0DN86 (S21-Q165)
Gene ID:	1081&1082
Molecular Weight:	22&30-35 kDa

PROPERTIES

AA Sequence	<pre> A P D V Q D C P E C T L Q E N P F F S Q P G A P I L Q C M G C C F S R A Y P T P L R S K K T M L V Q K N V T S E S T C C V A K S Y N R V T V M G G F K V E N H T K S & S K E P L R P A C H C S T C Y Y H R C R P I N A T L A V E K E G C P V C I T V N T T I C A G Y C P T M T R V L Q G V L P A L P Q V V C N Y R D V R F E S I R L P G C P R G V N P V V S Y A V A L S C Q C A L C R R S T T D C G G P K D H P L T C D D P R F Q D S S S S K A P P P S L P S P S R L P G P S D T P I L P Q </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The CG alpha protein serves as the shared alpha chain in the active heterodimeric glycoprotein hormones, including thyrotropin (TSH), lutropin (LH), follitropin (FSH), and choriogonadotropin (CG). These hormones bind to specific receptors on target cells, initiating downstream signaling pathways. The heterodimeric structure of these hormones involves the CG alpha chain, as described here, and a unique beta chain, which imparts biological specificity to each hormone. Specifically,
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TSH consists of CG alpha and TSH beta (TSHB), lutropin comprises CG alpha and LH beta (LHB), follitropin includes CG alpha and FSH beta (FSHB), and choriogonadotropin is composed of CG alpha and choriogonadotropin subunit beta (CGB).

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA