

CG alpha Protein, Human (HEK293)

Cat. No.:	HY-P75342
Synonyms:	Glycoprotein hormones alpha chain; CG-alpha; FSH-alpha; CGA
Species:	Human
Source:	HEK293
Accession:	NP_000726.1 (A25-S116)
Gene ID:	1081
Molecular Weight:	Approximately 11.86&15-22 kDa

PROPERTIES

AA Sequence	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 A C H C S T C Y Y H K S
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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.
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	CG alpha Protein, the encoded alpha subunit of the human glycoprotein hormones, including chorionic gonadotropin (CG), luteinizing hormone (LH), follicle-stimulating hormone (FSH), and thyroid-stimulating hormone (TSH), plays a pivotal role in forming noncovalent dimers with beta subunits, conferring biological specificity to each hormone. While the alpha subunits are identical across these hormones, their unique beta chains determine their distinct functions. CG alpha belongs to the glycoprotein hormones alpha chain family and is expressed predominantly in the placenta (RPKM 388.3). The restricted expression pattern highlights its specialization in placental tissues, where it contributes to the regulatory functions of glycoprotein hormones crucial for reproductive and endocrine processes. Two transcript variants, encoding different isoforms, have been identified for this gene, adding to the complexity of its regulatory mechanisms in various physiological contexts.
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Caution: Product has not been fully validated for medical applications. For research use only.

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