Recombinant Human CGA

Cat. No. CGA-49H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Chorionic Gonadotropin Alpha Polypeptide was expressed in yeast.
Species	Human
Source	Yeast
Description	Chorionic Gonadotropin Alpha Polypeptide (CGa) is a glycoprotein hormone produced in pregnancy that is made by the developing embryo soon after conception and later by the syncytiotrophoblast (part of the placenta).Its role is to prevent the disintegration of the corpus luteum of the ovary and thereby maintain progesterone production that is critical for a pregnancy in humans. hCG may have additional functions; for instance, it is thought that hCG affects the immune tolerance of the pregnancy. Early pregnancy testing, in general, is based on the detection or measurement of hCG. Because hCG is produced also by some kinds of tumor, hCG is an important tumor marker, but it is not known whether this production is a contributing cause or an effect of tumorigenesis.
Form	Lyophilized from sterile 20mM PB,240mM NaCl,PH6.0.
Endotoxin	< 1.0 eu per μg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Applications	Western blotting, ELISA

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Storage	Store it under sterile conditions at -20℃ to -100℃ upon receiving.Recommend to aliquot the protein into smaller quantities for optimal storage.

GENE INFORMATION

Gene Name	CGA glycoprotein hormones, alpha polypeptide [Homo sapiens]
Official Symbol	CGA
Synonyms	CGA; glycoprotein hormones, alpha polypeptide; glycoprotein hormones alpha chain; chorionic gonadotropin; alpha polypeptide; follicle stimulating hormone alpha subunit; FSHA; GPHa; GPHA1; HCG; LHA; luteinizing hormone alpha chain; lutropin alpha chain; thyroid stimulating hormone alpha chain; TSHA; FSH-alpha; LSH-alpha; TSH-alpha; follitropin alpha chain; thyrotropin alpha chain; choriogonadotropin alpha chain; chorionic gonadotrophin subunit alpha; thyroid-stimulating hormone alpha chain; follicle-stimulating hormone alpha chain; chorionic gonadotropin, alpha polypeptide; follicle-stimulating hormone alpha subunit; anterior pituitary glycoprotein hormones common subunit alpha; CG-ALPHA;
Gene ID	1081
mRNA Refseq	NM_000735
Protein Refseq	NP_000726
MIM	118850
UniProt ID	P01215
Chromosome Location	6q14-q21

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Pathway	Amine-derived hormones, organism-specific biosystem; Androgen biosynthesis, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem;
Function	hormone activity; protein binding;

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