GPHA2 Protein, Human (HEK293, His)

Cat. No.:	HY-P76958
Synonyms:	Glycoprotein hormone alpha-2; Putative secreted protein Zsig51; GPA2; ZSIG51
Species:	Human
Source:	HEK293
Accession:	Q96T91 (Q24-Y129)
Gene ID:	170589
Molecular Weight:	Approximately 23 kDa due to the glycosylation.

PROPERTIES

AA Sequence	Q E A V I P G C H L H P F N V T V R S D R Q G T C Q G S H V A Q A C V G H C E S S A F P S R Y S V L V A S G Y R H N I T S V S Q C C T I S G L K K V K V Q L Q C V G S R R E E L E I F T A R A C Q C D M C R L S R Y
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	GPHA2 (Glycoprotein Hormone Alpha 2) functions as a crucial heterodimeric glycoprotein hormone alongside GPHB5, with the ability to bind and activate the thyroid-stimulating hormone receptor (TSHR), ultimately resulting in elevated cAMP production. This glycoprotein hormone complex plays a central role in the regulation of thyroid cell metabolism, indicating its significance in the control of thyroid function and hormonal balance. The functional partnership between GPHA2 and GPHB5 is highlighted by their formation of a heterodimer, and this complex specifically interacts with TSHR, thereby initiating the cascade leading to increased cAMP levels.

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

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