

GPB5 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Gpb5;Glycoprotein hormone beta-5;Gphb5;Thyrostimulin subunit beta;Zlut1
Protein Construction:	25-130 aa
Species:	Mouse
Expression Host:	P. pastoris (Yeast)
Accession:	Q812B2
Molecular Weight:	13.3 kDa (predicted)
AA Sequence:	SSSGNLHTFVGCAVREFTFMAKKPGCRGLRITTDACWGR CETWEKPILEPPYIEAYHRVCTYNETRQVTVKLPN CAPGVDPFYTYPM AVRCD CGACSTATTECETI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Functions as a heterodimeric glycoprotein hormone with GPHA2 able to bind and activate the thyroid-stimulating hormone receptor (TSHR), leading to increased cAMP production. Plays a central role in controlling thyroid cell metabolism.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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