

G6B Protein, Human (HEK293, Fc)

Cat. No.:	HY-P75784
Synonyms:	Megakaryocyte and platelet inhibitory receptor G6b; Protein G6b; MPIG6B; C6orf25; G6B-B
Species:	Human
Source:	HEK293
Accession:	O95866 (M1-Q146)
Gene ID:	80739
Molecular Weight:	Approximately 40.2 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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	G6B, an inhibitory receptor, plays a crucial role in regulating hematopoietic lineage differentiation, megakaryocyte function, and platelet production. This regulatory function extends to inhibiting platelet aggregation and activation induced by various agonists like ADP and collagen-related peptide. The inhibition is mediated through the receptor's impact on CLEC1B and GP6:FcRgamma signaling, involving two immunoreceptor tyrosine-based inhibitor motifs (ITIMs). Notably, G6B operates in a calcium-independent manner. Isoform B, containing both a transmembrane region and the mentioned ITIMs, serves as the inhibitory counterpart, while isoform A is considered the activating counterpart of isoform B. This dual-isoform system reflects the nuanced regulatory mechanisms underlying hematopoiesis and platelet function.
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Caution: Product has not been fully validated for medical applications. For research use only.

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