Proteins



G6B Protein, Human (HEK293, His)

Cat. No.: HY-P75785

Synonyms: Megakaryocyte and platelet inhibitory receptor G6b; Protein G6b; MPIG6B; C6orf25; G6B-B

Species: Source: **HEK293**

O95866/NP_612116.1 (N18-Q142) Accession:

Gene ID: 80739

Molecular Weight: Approximately 18-23 kDa due to the glycosylation

PROPERTIES

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NPGASLDGRP GDRVNLSCGG VSHPIRWVWA PSFPACKGLS KGRRPILWAS SSGTPTVPPL QPFVGRLRSL DSGIRRLELL LSAGDSGTFF CKGRHEDESR TVLHVLGDRT YCKAPGPTHG

SVYPQ

Biological Activity

Measured by its ability to induce cell death using Mv1Lu mink lung epithelial cells. The ED₅₀ for this effect is 2.344 μg/mL, corresponding to a specific activity is 4.266×10^2 U/mg.

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 ddH₂O. 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

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.

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

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