

RPPB5727

Product Information Protein Information

Product SKU:

RPPB5727

Accession:

Q63961

Host:

Insect Cells.

Protein description:

CD105 Mouse Recombinant extracellular domain produced in baculovirus is a homodimeric, glycosylated, Polypeptide containing 581 amino acids and having a molecular mass of 61 kDa but as a result of glycosylation, migrates at 75-85 kDa under reducing conditions in SDS-PAGE. Based on N-terminal sequence analysis, the primary structure of recombinant mature Endoglin starts at Glu 26. The CD105 is fused to a C-terminal His-tag (6xHis) and purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Cell surface MJ7/18 antigen, Endoglin.

Formulation:

Endoglin was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.

Purity:

Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized CD-105 in sterile PBS not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Endoglin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CD105 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

MDRGLPLPITLLFVIYSFVPTTGLAERVGCDLQVPDPTRGEVT
FTTSQVSEGCVAQAANAVREHVFLDFPGMLSHLELTQASKQNGTETQEVF
LVLVSNKNVFKFQAPEIPLHLAYDSSLVIFQGQPRVNITVPLSLTSRKQILDWA
ATKGAITSIAALDDPQSIVLQLGQDPKAPFLCLPEAHKDMGATLEWQPRAQTP
VQSCRLEGVSGHKEAYILRILPGSEAGPRTVTMMELSGDAILILHGPPYVS
WFIDINHSMQILTTGEYSVKIFPGSKVKGVELPDTQPGLIAEARKLNASIVTSFV
ELPLVSNVSLRASSCGGVFQTPAPVVTTPPKDTCSPVLLMSLIQPKCGNQVMT
LALNKKHVQTLQCTITGLTFWDSSCAEDTDDHLVLSAYSSCGMKVTAHV
SNEVIISFPGSPPLRKKVQCIDMDSLFSQLGLYLSPHFLQASNTIELGQQAQFVQV
SVSPLTSEVTVQLDSCHLDLGPEDMVLIQSRTAKGSCVTLLSPSPGDPFRSF
LLRVYMVPTPTAGTLCNLALRPSTLSQEVYKTVSMRLNIVSPDLS.

Biological Activity:

Measured by its ability to bind with rhTGF-beta RII/Fc in a functional ELISA. Optimal dilutions should be determined by each laboratory for each application.