9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Endoglin Human, Sf9

Endoglin Human Recombinant, Sf9
CYK0142

Product Overview

Name	Endoglin Human, Sf9
Description	
Endoglin Human Recombinant, Sf9	
Accession (Primary)	P17813
Synonyms	
CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin.	
Introduction	
Endoglin is a type I membrane glycoprotein located on cell surfaces and is part of the TGF beta receptor complex. The protein consists of a homodimer of 180 kDA with disulfide links. It has been found on endothelial cells, activated macrophages, fibroblasts, and smooth muscle cells. Endoglin has been found to be part of the TGF-beta1 receptor complex. It thus may be involved in the binding of TGF-beta1, TGF-beta3, activin-A, BMP-2, and BMP-7. Beside TGF-beta signaling endoglin may have other functions. It has been postulated that endoglin is involved in the cytoskeletal organization affecting cell morphology and migration. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development . Experimental mice without the endoglin gene die due to cardiovascular abnormalities.	
Source	
Sf9 Insect Cells.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Endoglin was lyophilized from a concentrated (1mg/ml) sterile solution containing 1xPBS.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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MDRGTLPLAVALLLASCSLSPTSLAETVHCDLQPVGPERGEVTY

TTSQVSKGCVAQAPNAILEVHVLFLEFPTGPSQLELTLQASKQNGTWPREVLLVL

SVNSSVFLHLQALGIPLHLAYNSSLVTFQEPPGVNTTELPSFPKTQILEWAAERGPI

TSAAELNDPQSILLRLGQAQGSLSFCMLEASQDMGRTLEWRPRTPALVRGCHLE

GVAGHKEAHILRVLPGHSAGPRTVTVKVELSCAPGDLDAVLILQGPPYVSWLID

ANHNMQIWTTGEYSFKIFPEKNIRGFKLPDTPQGLLGEARMLNASIVASFVELPL

ASIVSLHASSCGGRLQTSPAPIQTTPPKDTCSPELLMSLIQTKCADDAMTLVLKKE

LVAHLKCTITGLTFWDPSCEAEDRGDKFVLRSAYSSCGMQVSASMISNEAVVNI

LSSSSPQRKKVHCLNMDSLSFQLGLYLSPHFLQASNTIEPGQQSFVQVRVSPSVSE

FLLQLDSCHLDLGPEGGTVELIQGRAAKGNCVSLLSPSPEGDPRFSFLLHFYTVPI PKTGTLSCTVALRPKTGS.

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.

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.

Precautions

Endoglin Human, Sf9 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P17813)