
Product Data Sheet

Product Name: Endoglin (27-581) Mouse

Cat. No.: GP20187

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Endoglin; Cell surface MJ7/18 antigen; CD105; Eng; Edg.

Amino Acid Sequence
 ERVGCDLQPV DPTRGEVTFT TSQVSEGCVA QAANAVREVVH VLFLDFPGML
 SHLELTLQAS KQNGTETQEV FLVLVSNKNV FVKFQAPEIP LHLAYDSSLV
 IFQGQPRVNI TVLPSLTSRK QILDWAATKG AITSIAALDD PQSIVLQLGQ
 DPKAPFLCLP EAHKDMGATL EWQPRAQTPV QSCRLEGVSG HKEAYILRIL
 PGSEAGPRTV TVMMELSCTS GDAILILHGP PYVSWFIDIN HSMQILTTGE
 YSVKIFPGSK VKGVELPDTP QGLIAEARKL NASIVTSFVE LPLVSNVSLR
 ASSCGGVFQT TPAPVVTTTP KDTCSPVLLM SLIQPKCGNQ VMTLALNKKH
 VQTLQCTITG LTFWDSSCQA EDTDDHLVLS SAYSSCGMKV TAHVVSNEVI
 ISFPSGSPPL RKKVQCIDMD SLSFQLGLYL SPHFLQASNT IELGQQAFVQ
 VSVSPLTSEV TVQLDSCHLD LGPEGDMVEL IQSRTAKGSC VTLLSPSPEG
 DPRFSFLLRV YMVPTPTAGT LSCNLALRPS TLSQEVYKTV SMRLNIVSPD
 LSGKGLEHHH HHH

Formulation Endoglin protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

Endoglin is a type I membrane glycoprotein located on cell surfaces and is part of the TGF beta receptor complex. The Endoglin protein consists of a homodimer of 180 kDA with disulfide links. Endoglin has been found on endothelial cells, activated macrophages, fibroblasts, and smooth muscle cells. Furthermore, Endoglin has been found to be part of the TGF-beta1 receptor complex. Endoglin 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.

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

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Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Endoglin expression is regulated during heart development . Experimental mice without the endoglin gene die due to cardiovascular abnormalities.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Endoglin Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 563 amino acids (27-581 a.a.) and having a molecular mass of 60.9kDa (Migrates at 50-70kDa on SDS-PAGE under reducing conditions). Endoglin is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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