10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Endoglin, human recombinant protein

CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin
Catalog # PBV10297r

Specification

Endoglin, human recombinant protein - Product info

Primary Accession	P17813
Calculated MW	**90.0 kDa KDa**

Endoglin, human recombinant protein - Additional Info

Gene ID	**2022**
Gene Symbol	**ENG**

Other Names
CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin

Gene Source	**Human**
Source	**Sf9 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**HPLC; ≥95%**
Recombinant	**Yes**
Sequence	**MDRGTLPLAVALLLASCSLSPTSLAETVHCDLQ PVGPERGEVTYTTSQVSKGCVAQAPNAILEVHV LFLEFPTGPSQLELTLQASKQNGTWPREVLLVL SVNSSVFLHLQALGIPLHLAYNSSLVTFQEPPG VNTTELPSFPKTQILEWAAERGPITSAAELNDP QSILLRLGQAQGSLSFCMLEASQDMGRTLEWR PRTPALVRGCHLEGVAGHKEAHILRVLPGHSAG PRTVTVKVELSCAPGDLDAVLILQGPPYVSWLI DANHNMQIWTTGEYSFKIFPEKNIRGFKLPDTP QGLLGEARMLNASIVASFVELPLASIVSLHASSC GGRLQTSPAPIQTTPPKDTCSPELLMSLIQTKCA DDAMTLVLKKELVAHLKCTITGLTFWDPSCEAE DRGDKFVLRSAYSSCGMQVSASMISNEAVVNI LSSSSPQRKKVHCLNMDSLSFQLGLYLSPHFLQ ASNTIEPGQQSFVQVRVSPSVSEFLLQLDSCHL DLGPEGGTVELIQGRAAKGNCVSLLSPSPEGDP RFSFLLHFYTVPI PKTGTLSCTVALRPKTGS.**

Target/Specificity
Endoglin

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

Format
Lyophilized protein

Storage
-20°C; Lyophilized from PBS pH 7.4.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Endoglin, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Endoglin, human recombinant protein - Images

Endoglin, human recombinant protein - Background

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. 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 . CD105 Human Recombinant extracellular domain produced in baculovirus is a homodimeric, glycosylated, polypeptide containing 586 amino acids and having a molecular mass of 61 kDa but as a result of glycosylation, migrates at 90 kDa under reducing conditions in SDS-PAGE. The CD105 is fused to a C-terminal His-tag (6xHis) and purified by proprietary chromatographic techniques.

Endoglin, human recombinant protein - References

Bellon T.,et al.Eur. J. Immunol. 23:2340-2345(1993).
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Gougos A.,et al.J. Biol. Chem. 265:8361-8364(1990).
McAllister K.A.,et al.Nat. Genet. 8:345-351(1994).