

Product datasheet for PH311080

COMP (NM_000095) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COMP MS Standard C13 and N15-labeled recombinant protein (NP_000086)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211080
Predicted MW:	82.9 kDa
Protein Sequence:	>RC211080 protein sequence Red=Cloning site Green=Tags(s)

MVPDTACVLLLLTLAALGASGQGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQVREITFLKNTVMECD
ACGMQQSVRTGLPSVRPLLHCAPGFCFPGVACIQTESGARCGPCPAGFTGNGSHCTDVNECNAHPCFPRV
RCINTSPGFRCEACPPGYSGPTHQGVGLAFKANKQVCTDINECETGQHNCVPNSVCINTRGSFQCGPCQ
PGFVGDQASGCQRRARQFCPDGSPSECHEHADCVLERDGSRSCVCAVGWAGNGILCGRDLDLDFPDEKL
RCPERQCRKDNCTVPNSGQEDVDRDGIADCPDADGDGVPNEKDNCPLVRNPDQRNTDEDKWDGACDN
CRSQKNDQKDTDQDGRGDACDDDDIDGDRIRNQADNCPVPNSDQKSDSDGDIADGACDNCQKSNPDQAD
VDHDFVGDACDSDQDQDGDGHQDSRDNCPTVPNSAQEDSDHDGQDADDDDDNDGVPDSRDNCRLVNP
GQEDADRQDGVGDVQDDFDADKVVDKIDVCPENAEVTLTDFRAFQTVVLDPEGDAQIDPNWVVLNQGREI
VQTMNSDPGLAVGYTAFNGVDFEGTFHVNTVTDDDYAGFIFGYQDSSSFYVVMWKQMEQTYWQANPFRAV
AEPGIQLKAVKSSTGPGEQLRNALWHTGDTESQVRLWKPDRNVGWKDKKSYRWFLQHRPQVGYIRVRFY
EGPELVADSNVLDTTMRGGRLGVFCFSQENIIWANLRYRCDNTIPEDYETHQLRQA

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000086



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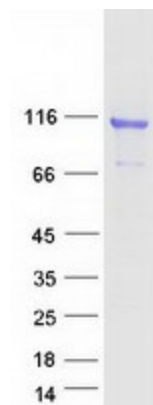
RefSeq Size:	2471
RefSeq ORF:	2271
Synonyms:	CTS2; EDM1; EPD1; MED; PSACH; THBS5; TSP5
Locus ID:	1311
UniProt ID:	P49747
Cytogenetics:	19p13.11

Summary: The protein encoded by this gene is a noncollagenous extracellular matrix (ECM) protein. It consists of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondin-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfides. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Contraction or expansion of a 5 aa aspartate repeat and other mutations can cause pseudoachondroplasia (PSACH) and multiple epiphyseal dysplasia (MED). [provided by RefSeq, Jul 2016]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: ECM-receptor interaction, Focal adhesion, TGF-beta signaling pathway

Product images:



Coomassie blue staining of purified COMP protein (Cat# [TP311080]). The protein was produced from HEK293T cells transfected with COMP cDNA clone (Cat# [RC211080]) using MegaTran 2.0 (Cat# [TT210002]).