Recombinant Human Calcyclin Binding Protein

Cat. No. CACYBP-2533H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	E.coli
Description	CACYBP is primarily a nuclear protein that contains one CS domain and one SGS domain. It is believed to be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. It most likely serves as a molecular bridge in Ubiquitin E3 complexes. It also participates in the Ubiquitin-mediated degradation of β-catenin. CACYBP is thought to be a potential inhibitor of cell growth and invasion in the gastric cancer cell through its effects on β-catenin protein expression and transcriptional activation of TCF/LEF.
Biochem/physiol Actions	Calcyclin binding protein (CACYBP), highly expressed in brain neurons, is involved in calcium-dependent ubiquitination and proteosomal degradation of target proteins. CACYBP serves as an adaptor protein in ubiquitin E3 complexes and participates in the ubiquitin-mediated degradation of β-catenin. CACYBP is also involved in cell growth inhibition and cell differentiation. CACYBP is a potential inhibitor of cell growth and invasion of gastric cancer cells. Overexpression of CACYBP leads to the suppression of growth in renal cell carcinoma.
Physical Form	Solution in 20 mM Tris, pH 7.6, containing 1 mM EDTA, 1 mM DTT, and 30% glycerol (v/v).

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Assay	≥90% (SDS-PAGE).
Form	buffered aqueous solution.
Mol Wt	mol wt 30 kDa.
Storage Temp	−20°C.

GENE INFORMATION

Gene Name	CACYBP calcyclin binding protein [Homo sapiens]
Synonyms	calcyclin binding protein; SIP; GIG5; MGC87971; PNAS-107; S100A6BP; RP1-102G20.6; CACYBP; calcyclin-binding protein; hCacyBP; S100A6-binding protein; Siah-interacting protein (SIP); growth-inhibiting gene 5 protein;OTTHUMP00000201857; Siah-interacting protein; CacyBP
Gene ID	27101
mRNA Refseq	NM_001007214
Protein Refseq	NP_001007215
MIM	606186
UniProt ID	Q9HB71
Chromosome Location	1q24-q25
Pathway	Wnt signaling pathway

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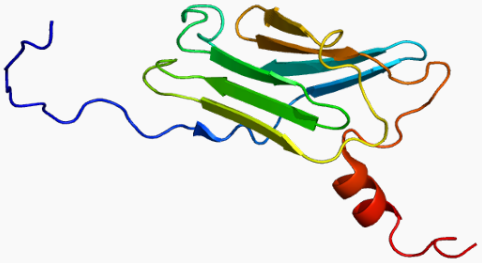
Function	protein binding; protein homodimerization activity
PDB rendering based on 1x5m.	

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