

Recombinant Human Calcyclin Binding Protein

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

SPECIFICATION

Species	Human
Source	E.coli
Description	<p>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.</p>
Biochem/physiol Actions	<p>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.</p>
Physical Form	Solution in 20 mM Tris, pH 7.6, containing 1 mM EDTA, 1 mM DTT, and 30% glycerol (v/v).
Assay	$\geq 90\%$ (SDS-PAGE).

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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
Function	protein binding; protein homodimerization activity

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PDB rendering based
on 1x5m.



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