

## Recombinant Human CALB2, His-tagged

Cat. No. CALB2-27214TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Calretinin , with N terminal His-tag; 291aa, MWt 33.7kDa inclusive of tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	271 amino acids
<b>Description</b>	This gene encodes an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability, and is a diagnostic marker for some human diseases, including Hirschsprung disease and some cancers. Alternative splicing results in multiple transcript variants.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	33.700kDa
<b>Tissue specificity</b>	Brain.
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MGSSHHHHHH SSSLVPRGSH MAGPQQQPPY LHLAELTASQ FLEIWKHFDA DGNGYIEGKE LENFFQELEK ARKGSGMMSK SDNFGEKMKE FMQKYDKNSD GKIEMAELAQ ILPTEENFLL CFRQHVGSSST EFMEAWRKYD TDRSGYIEAN ELKGFLSDLL KKANRPYDEP KLQEYQTIL RMFDLNGDGK LGLSEMSRLL PVQENFLLKF QGMKLTSEEF NAIFTFYDKD RSGYIDEHEL DALLKDLYEK NKKEMNIQQL TNYRKSVMMSL AEAGKLYRKD LEIVLCSEPP M
<b>Sequence Similarities</b>	Belongs to the calbindin family. Contains 6 EF-hand domains.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CALB2 calbindin 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">CALB2</a>
<b>Synonyms</b>	CALB2; calbindin 2; calbindin 2, 29kDa (calretinin); calretinin; CAL2;
<b>Gene ID</b>	<a href="#">794</a>
<b>mRNA Refseq</b>	<a href="#">NM_001740</a>
<b>Protein Refseq</b>	<a href="#">NP_001731</a>

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<b>MIM</b>	114051
<b>Uniprot ID</b>	P22676
<b>Chromosome Location</b>	16q22.2
<b>Function</b>	calcium ion binding;

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