

Recombinant Human PPP2R2B, His-tagged

Cat. No. PPP2R2B-27570TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant fragment, corresponding to amino acids 1-278 of Human PPP2R2B with an N-terminal His tag; MWt 32 kDa.

Species Human

Source E.coli

ProteinLength 1-278 a.a.

Description

The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a beta isoform of the regulatory subunit B55 subfamily. Defects in this gene cause autosomal dominant spinocerebellar ataxia 12 (SCA12), a disease caused by degeneration of the cerebellum, sometimes involving the brainstem and spinal cord, and in resulting in poor coordination of speech and body movements. Multiple alternatively spliced variants, which encode different isoforms, have been identified for this gene. The 5' UTR of some of these variants includes a CAG trinucleotide repeat sequence (7-28 copies) that can be expanded to 66-78 copies in cases of SCA12.

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Conjugation	HIS
Form	Lyophilised:Reconstitute with 71 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEEDIDTRKINNSFLRDHSYATEADIISTVEFNHTGELLA TGDKGGRVVIFQREQESK NQVHRRGEYNVYSTFQSHEP EFDYLKSLEIEEKINKIRWLPQQNAAYFLLSTNDKTV K LWKVSRDKRPEGYNLKDDEEGLRDPATITTLRVPVLR PMDLMVEATPRRVFAN AHTYHINSISVNSDYETYMSADDL RINLWNFEITNQSFNIVDIKIPANMEELTEVITAAE FHP HHCNTFVYSSSKGTIRLCDMRASALCDRHTKFFEEPED PSNRSFFS

GENE INFORMATION

Gene Name	PPP2R2B protein phosphatase 2, regulatory subunit B, beta [Homo sapiens]
Official Symbol	PPP2R2B
Synonyms	PPP2R2B; protein phosphatase 2, regulatory subunit B, beta; protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), beta isoform , protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform , SCA12, spinocerebellar ataxia 12; ser
Gene ID	5521
mRNA Refseq	NM_001127381
Protein Refseq	NP_001120853

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MIM	604325
Uniprot ID	Q00005
Chromosome Location	5q32
Pathway	Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; Glycogen Metabolism, organism-specific biosystem;
Function	protein binding; protein phosphatase type 2A regulator activity;

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