

Active Recombinant Full Length Human PPP2CA and PPP2R1A complex, N-His tagged

Cat. No. PPP2CA-PPP2R1A-10HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human PP2Aα and human PPP2R1A were expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. The PP2Aα gene accession number is NM_002715; PPP2R1A is NM_014225.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	PP2A α is also known as Protein phosphatase 2A active subunit. PP2A is one of the four major Ser/Thr phosphatases and is a human tumor suppressor that inhibits cellular transformation. PP2A α gene encodes a specific phosphotyrosyl phosphatase activator of the dimeric form of protein phosphatase-2A. Protein phosphatase 2A holoenzyme is a heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. PTP2A α can alter the substrate specificity of PP2A leading to enhanced phosphotyrosine phosphatase activity and decreased phosphoserine phosphatase activity.
Bio-activity	4,000 nmol/min/mg
Molecular Mass	PP2Aα: ~38 kDa PPP2R1A: ~65 kDa

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Purity	>75%
Stability	1 year at –70 centigrade from date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50mM MOPS, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Shipping	Dry ice
References	1. Van Hoof, C. et.al: Structure and chromosomal localization of the human gene of the phosphotyrosyl phosphatase activator (PTPA) of protein phosphatase 2A. Genomics 28: 261-272, 1995. 2. Chao, Y. et.al: Structure and mechanism of the phosphotyrosyl phosphatase activator. Molec. Cell 23: 535-546, 2006.

GENE INFORMATION

Gene Name	PPP2CA protein phosphatase 2 catalytic subunit alpha [Homo sapiens (human)]
Official Symbol	PPP2CA
Synonyms	PPP2CA; protein phosphatase 2 catalytic subunit alpha; HJS3; RP-C; PP2Ac; PP2CA; NEDLBA; PP2Calpha; serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform; PP2A-alpha; protein phosphatase 2, catalytic subunit, alpha isozyme; replication protein C; EC 3.1.3.16; serine/threonine-protein phosphatase 2A

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65 kDa regulatory subunit A alpha isoform; Names; medium tumor antigen-associated 61 KDA protein; protein phosphatase 2, regulatory subunit A, alpha; testicular secretory protein Li 1; EC 3.1.3.16; PPP2R1A; protein phosphatase 2 scaffold subunit Aalpha; HJS2; MRD36; PP2AA; PR65A; PP2AAALPHA; PP2A-Aalpha

Gene ID 5515

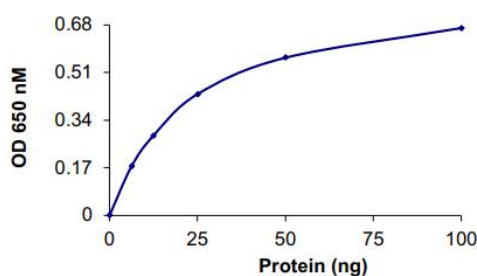
mRNA Refseq NM_002715

Protein Refseq NP_002706

MIM 176915

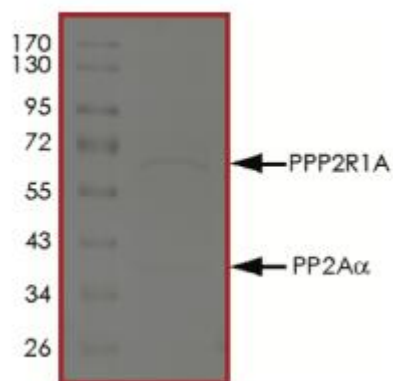
UniProt ID P05323

Specific activity



The specific activity of PP2Aa/PPP2R1A protein Complex was determined to be ~4,000 nmol phosphate released /min/mg

Purity



The purity of PP2Aa/PPP2R1A complex was determined to be >75% by densitometry. The PP2Aa was approx. MW 38kDa and PPP2R1A was approx. MW 65kDa.

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