

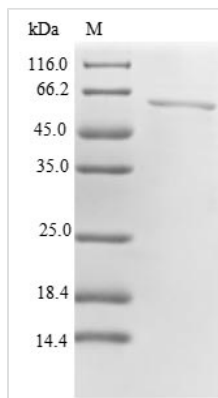


Recombinant Human Serine/threonine-protein phosphatase 2A activator (PTPA)

Product Code	CSB-EP620876HU
Relevance	PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Acts as a regulatory subunit for serine/threonine-protein phosphatase 2A (PP2A) modulating its activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPlase. Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg ²⁺ . Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg ²⁺ (in vitro). The phosphotyrosyl phosphatase activity is dependent of an ATPase activity of the PP2A(D):PPP2R4 complex. Is involved in apoptosis; the function appears to be independent from PP2A.
Abbreviation	Recombinant Human PTPA protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q15257
Alias	PP2A, subunit B', PR53 isoform Phosphotyrosyl phosphatase activator
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AEGERQPPPDSSSEEAPPATQNFIIPKKEIHTVPDMGKWKRSQAYADYIGFILTL NEGVKGKKLTFEYRVSEMWNEVHEEKEQAAKQSVSCDECIPRAGHCAPSE AIEKLVALNLTDRWIDETPPVDQPSRFGNKAYRTWYAKLDEEAENLVATVVPT HLAAAVPEVAVYVKESVGNSTRIDYGTGHEAAFAAFLCCLCKIGVLRVDDQIAIV FKVFNRYLEVMRKLQKTYRMEPAGSQGVWGLDDFQFLPFIWGSSQLIDHPYL EPRHFVDEKAVNENHKDYMFLCILFITEMKTGPFAEHSNQLWNISAVPSWSK VNQGLIRMYKAECLEKFPVIQHFQKFGSLLPIHPVTSG
Research Area	others
Source	E.coli
Target Names	PTPA
Protein Names	Recommended name: Serine/threonine-protein phosphatase 2A activator EC= 5.2.1.8 Alternative name(s): PP2A, subunit B', PR53 isoform Phosphotyrosyl phosphatase activator Short name= PTPA Serine/threonine-protein phosphatase 2A



Expression Region	2-358aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	60.5kDa
Protein Length	Full Length of Mature Protein

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.