重组人PP2AB蛋白

Recombinant PP2AB protein (His tag)

目录号 Catalog Number	544765
同用名 Synonyms	PP2A-beta
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	P62714
分子量 Molecular Weight	Predictes a molecular mass of 37.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MDDKAFTKEL DQWVEQLNEC KQLNENQVRT LCEKAKEILT KESNVQEVRC PVTVCGDVHG QFHDLMELFR IGGKSPDTNY LFMGDYVDRG YYSVETVTLL VALKVRYPER ITILRGNHES RQITQVYGFY DECLRKYGNA NVWKYFTDLF DYLPLTALVD GQIFCLHGGL SPSIDTLDHI RALDRLQEVP HEGPMCDLLW SDPDDRGGWG ISPRGAGYTF GQDISETFNH ANGLTLVSRA HQLVMEGYNW CHDRNVVTIF SAPNYCYRCG NQAAIMELDD TLKYSFLQFD PAPRRGEPHV TRRTPDYFLL EHHHHHH
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 1-309 aa (P62714) were fused with C-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

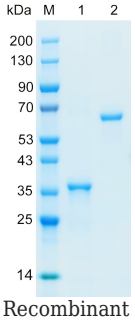
功能描述

研究背景 Background

Recombinant Human Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform (PP2A-beta), encompassing amino acids 1-309, is a high-purity fragment designed for structural and biochemical studies. This stable, soluble unit retains key functional regions, enabling researchers to investigate the catalytic mechanisms and regulatory roles of this essential phosphatase in cellular signaling pathways.
PP2A-beta, encoded by the PPP2CB gene, serves as the catalytic subunit of protein phosphatase 2A (PP2A), a serine/threonine phosphatase critical for regulating diverse enzymes, signal transduction pathways, and cellular events. It modulates the activity of kinases such as phosphorylase B kinase, casein kinase 2, and MAP-2 kinase, and is integral to striatin-interacting phosphatase and kinase (STRIPAK) complexes. These complexes govern multiple signaling pathways, including Hippo and MAPK, and influence processes like cell growth, differentiation, and immune regulation. Subcellularly, PP2A-beta localizes to the cytoplasm, nucleus, centromeres, and spindle poles, with dynamic presence during mitosis, underscoring its role in cell division and structural organization.

验证数据

SDS-PAGE



Recombinant PP2AB protein (His tag) SDS-PAGE
M: Marker; Lane 1: PP2AB; Lane 2: BSA