重组人ACHB蛋白

Recombinant ACHB protein (His tag)

目录号 Catalog Number	544384
同用名 Synonyms	E3-independent; E2/E3 hybrid ubiquitin-protein ligase UBE2O; Ubiquitin carrier protein O; Ubiquitin-conjugating enzyme E2 O; Ubiquitin-conjugating enzyme E2 of 230 kDa; Ubiquitin-conjugating enzyme E2-230K; Ubiquitin-protein ligase O
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	P11230
分子量 Molecular Weight	Predictes a molecular mass of 26.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band. ACHB was found to form oligomers in SDS-PAGE analysis, which is consistent with reports in the literature (doi: 10.1111/j.1742-4658.2006.05363.x).

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKHHHHH HGGSSEAEGR LREKLFSGYD SSVRPAREVG DRVRVSVGLI LAQLISLNEK DEEMSTKVYL DLEWTDYRLS WDPAEHDGID SLRITAESVW LPDVVLLNNN DGNFDVALDI SVVVSSDGSV RWQPPGIYRS SCSIQVTYFP FDWQNCTMVF SSYSYDSSEV SLQTGLGPDG QGHQEIHIHE GTFIENGQWE IIHKPSRLIQ PPGDPRGGRE GQRQEVIFYL IIRRK
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 24-244 aa (P11230) were fused with N-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.

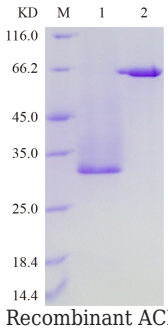
功能描述

研究背景 Background

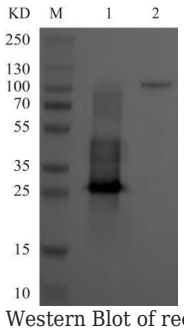
Recombinant Acetylcholine receptor subunit beta (CHRNB1) fragment (residues 24-244) from Homo sapiens, designed for structural and biochemical studies. This 221-amino acid soluble fragment retains key features for investigating acetylcholine-mediated signaling pathways.
The full-length Acetylcholine receptor subunit beta (CHRNB1) functions as a ligand-gated ion channel that undergoes extensive conformational changes upon acetylcholine binding, leading to opening of an ion-conducting channel across the plasma membrane (PubMed:27375219). Located in the postsynaptic cell membrane as a multi-pass membrane protein, it plays a critical role in neurotransmission and synaptic signaling. The selected fragment (24-244) represents a stable, soluble unit optimized for experimental applications while maintaining relevance to the native protein's functional architecture.

验证数据

SDS-PAGE



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



Western Blot of recombinant ACHB (His tag) with anti-His-tag antibody.
M: Marker; Lane 1: ACHB; Lane 2: Multi-tag protein