Recombinant STRAB protein (His tag)

Catalog Number	541208
Synonyms	STRAD beta; Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 2 protein; CALS-21; ILP-interacting protein; Pseudokinase ALS2CR2
Species	Human
Expression System	E. coli
Accession	Q9C0K7
Molecular Weight	Predictes a molecular mass of 27.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	51-283
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 51-283 aa (Q9C0K7) were fused with 6His tag.

Storage & Handling

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.
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.
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.

Description

Description	Recombinant Human STE20-related kinase adapter protein beta (STRAD beta) fragment (amino acids 51-283) is a high-quality, soluble protein designed for structural and biochemical studies. This fragment, derived from the pseudokinase STRADB, plays a critical role in activating STK11/LKB1 kinase and is ideal for investigating cellular signaling pathways and kinase regulation mechanisms. STRAD beta is a pseudokinase that, in complex with CAB39/MO25, binds to and activates STK11/LKB1. Unlike typical kinases, it adopts a closed, active conformation and acts as a pseudosubstrate to induce STK11/LKB1 into its active state, facilitating key cellular processes. The protein is localized in both the nucleus and cytoplasm, underscoring its involvement in diverse intracellular signaling events. This recombinant fragment represents a stable, soluble unit optimized for experimental applications, enabling detailed exploration of its functional interactions.