重组人MYO5A蛋白

Recombinant MYO5A protein (His tag)

目录号 Catalog Number	539308
同用名 Synonyms	Dilute myosin heavy chain, non-muscle; Myosin heavy chain 12; Myosin-12; Myoxin
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q9Y4I1
分子量 Molecular Weight	Predictes a molecular mass of 54.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

产品信息

序列区间 Sequence Region	634-1076
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>87%, 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 634-1076 aa (Q9Y4I1) were fused with 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 Unconventional Myosin-Va Fragment (residues 634-1076) is a high-purity protein designed for studying the IQ domain-mediated functions of this processive actin-based motor protein. This 443-amino acid fragment contains six consecutive IQ motifs (IQ 1-6), making it an ideal tool for investigating calcium-sensitive interactions and motor protein regulation in cellular transport processes. Unconventional myosin-Va is a processive actin-based motor protein that moves in large steps along actin filaments and hydrolyzes ATP in an actin-dependent manner. This protein plays crucial roles in intracellular transport, including melanosome movement and vesicle transport to the plasma membrane. Evidence also suggests involvement in polarization processes during dendrite formation. The full-length protein functions as a molecular motor essential for various cellular transport mechanisms, though specific subcellular localization data is not provided in the available information.