重组人MSMP蛋白

Recombinant MSMP protein (His tag)

目录号 Catalog Number	549485
同用名 Synonyms	PC3-secreted microprotein
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q1L6U9
分子量 Molecular Weight	Predictes a molecular mass of 12.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKSKCYF QAQAPCHYEG KYFTLGESWL RKDCFHCTCL HPVGVGCCDT SQHPIDFPAG CEVRQEAGTC QFSLVQKSDP RLPCKGGGPD PEWGSANTPV PGAPAPHSSL EHHHHHH
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, 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 36-139 aa (Q1L6U9) 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.

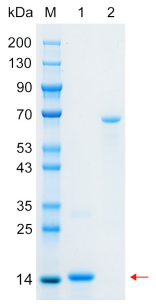
功能描述

研究背景 Background

Recombinant Human Prostate-associated microseminoprotein (PC3-secreted microprotein) Fragment (aa 36-139) is a high-purity, soluble protein designed for chemokine receptor research. This 104-amino acid fragment retains key functional regions, enabling studies on CCR2-mediated signaling, chemotaxis, and immune cell recruitment.
The full-length Prostate-associated microseminoprotein (MSMP) is a secreted human protein that functions as a ligand for the C-C chemokine receptor CCR2. Upon binding, it activates CCR2 to induce robust chemotactic responses and mobilize intracellular calcium ions. It demonstrates specific chemotactic activity for monocytes and lymphocytes but not neutrophils, highlighting its role in immune cell recruitment and inflammatory processes. As a secreted protein, it operates in extracellular environments, making it relevant for studying paracrine signaling in prostate biology and immune regulation.

验证数据

SDS-PAGE



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