重组人HMMR蛋白

Recombinant HMMR protein (His tag)

目录号 Catalog Number	539547
同用名 Synonyms	Intracellular hyaluronic acid-binding protein; Receptor for hyaluronan-mediated motility; CD antigen CD168
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	O75330
分子量 Molecular Weight	Predictes a molecular mass of 34.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKVTQRS LEESQGKIAQ LEGKLVSIEK EKIDEKSETE KLLEYIEEIS CASDQVEKYK LDIAQLEENL KEKNDEILSL KQSLEENIVI LSKQVEDLNV KCQLLEKEKE DHVNRNREHN ENLNAEMQNL KQKFILEQQE REKLQQKELQ IDSLLQQEKE LSSSLHQKLC SFQEEMVKEK NLFEEELKQT LDELDKLQQK EEQAERLVKQ LEEEAKSRAE ELKLLEEKLK GKEAELEKSS AAHTQATLLL QEKYDSMVQS LEDVTAQFES YKALTASEIE DLKLELEHHH HHH
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 197-476 aa (O75330) 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.

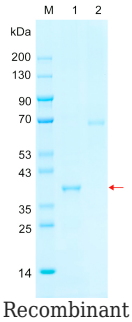
功能描述

研究背景 Background

This recombinant protein is a fragment of the human Hyaluronan mediated motility receptor (HMMR), also known as CD168, spanning residues 197-476. It represents a stable and soluble unit ideal for investigating hyaluronic acid-mediated signaling, cell motility, and metastasis-related mechanisms in structural and biochemical studies.
The full-length Hyaluronan mediated motility receptor (HMMR) functions as a receptor for hyaluronic acid and plays a critical role in cell motility. Upon binding hyaluronan, it facilitates the phosphorylation of proteins such as PTK2/FAK1 and may regulate extracellular-regulated kinase (ERK) activity, contributing to cellular transformation, metastasis formation, and adipogenesis. It is localized to the cell surface, cytoplasm, and the cytoskeletal spindle, underscoring its involvement in dynamic cellular processes and signaling pathways.

验证数据

SDS-PAGE



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