



Recombinant Human Atypical chemokine receptor 3 (ACKR3)

Product Code	CSB-CF006257HU(A4)
Relevance	<p>Atypical chemokine receptor that controls chemokine levels and localization via high-affinity chemokine binding that is uncoupled from classic ligand-driven signal transduction cascades, resulting instead in chemokine sequestration, degradation, or transcytosis. Also known as interceptor (internalizing receptor) or chemokine-scavenging receptor or chemokine decoy receptor. Acts as a receptor for chemokines CXCL11 and CXCL12/SDF1. Chemokine binding does not activate G-protein-mediated signal transduction but instead induces beta-arrestin recruitment, leading to ligand internalization and activation of MAPK signaling pathway. Required for regulation of CXCR4 protein levels in migrating interneurons, thereby adapting their chemokine responsiveness. In glioma cells, transduces signals via MEK/ERK pathway, mediating resistance to apoptosis. Promotes cell growth and survival. Not involved in cell migration, adhesion or proliferation of normal hematopoietic progenitors but activated by CXCL11 in malignant hemapoietic cells, leading to phosphorylation of ERK1/2 (MAPK3/MAPK1) and enhanced cell adhesion and migration. Plays a regulatory role in CXCR4-mediated activation of cell surface integrins by CXCL12. Required for heart valve development. Acts as coreceptor with CXCR4 for a restricted number of HIV isolates.</p>
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P25106
Product Type	Transmembrane Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDLHLFDYSEPGNFSDISWPCNSSDCIVVDTVMCPNMPNKSVELLYTLSFIYIFIF VIGMIANSVVVVVNIQAKTTGYDTHCYILNLAIDLWVVLTIPTVVVSLVQHNQ WPMGELTCKVTHLIFSINLFGSIFFLTMSVDRYLSITYFTNTPSSRKKMVRV CILVWLLAFCVSLPDTYYLKTVTSASNNETYCRSFYPEHSIKEWLIGMELVSVVL GFAVPFSIIAVFYFLLARAISSDQEKHSSRKIIIFSYYVVVFLVCWLPYHVAVLLDI FSILHYIPFTCRLEHALFTALHVTQCLSLVHCCVNPVLYSFINRNYRYELMKAFIF KYSAKTGLTKLIDASRVSETEYSALEQSTK
Research Area	Signal Transduction
Source	in vitro E.coli expression system
Target Names	ACKR3



Protein Names C-X-C chemokine receptor type 7 Short name: CXC-R7 Short name: CXCR-7 Chemokine orphan receptor 1 G-protein coupled receptor 159 G-protein coupled receptor RDC1 homolog Short name: RDC-1

Expression Region 1-362aa

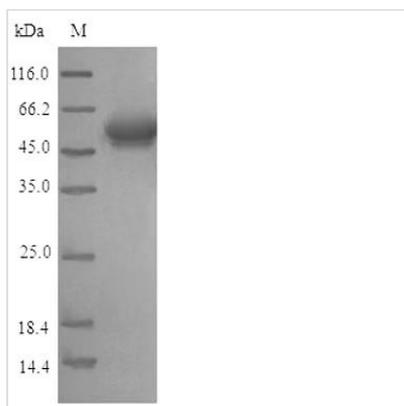
Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info N-terminal 6xHis-SUMO-tagged

Mol. Weight 57.5kDa

Protein Length Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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