Datasheet

Product Name	Recombinant Human C-X-C chemokine receptor type 7(ACKR3),partial
Catalog Number	**AAA18531**
Expression host	*E.coli*
Product Info	N-terminal 6xHis-SUMO-tagged
Storage Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
Relevance	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 (PubMed:16107333, PubMed:19255243, PubMed:19380869, PubMed:20161793, PubMed:22300987).
AA sequence	MDLHLFDYSEPGNFSDISWPCNSSDCIVVDTVMCPNMPNK
References	Decreased ACKR3 (CXCR7) function causes oculomotor synkinesis in mice and humans. Whitman M.C., Miyake N., Nguyen E.H., Bell J.L., Matos Ruiz P.M., Chan W.M., Di Gioia S.A., Mukherjee N., Barry B.J., Bosley T.M., Khan A.O., Engle E.C. Hum. Mol. Genet. 28:3113-3125 (2019)

Certificate of Analysis

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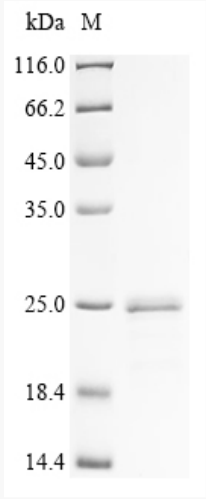
Storage Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol		
Batch Number	03012		
Nature	Human ACKR3-(AA 1-40)-**P25106**-Partial Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 ℃, one week from the date of receipt	
	Long term	-20 to -80 ℃, twelve months from the date of receipt	
Form	Liquid		
Date of detection	2023.03.22		
Test Items	**Specifications**		**Results**
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		1.9 mg/ml
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 20.5 kDa		Observed band size: 25 kDa The reducing (R) protein migrates as 25 kDa in SDS-PAGE may be due to relative ch arge.

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
Aseptic Processing	0.2 μm sterile filtered	
Endotoxin Level	<1.0 EU per 1μg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	