

Datasheet for ABIN7556025
xpr1 Protein (AA 1-696) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	xpr1
Protein Characteristics:	AA 1-696
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This xpr1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat XPR1 Protein expressed in mammalian cells.
Sequence:	<p>MKFAEHLSAHITPEWRKQYI QYEAFKDMLY SAQDQAPSVE VTDEDTVKRY FAKFEEKFFQ</p> <p>TCEKELAKIN TFYSEKLAEA QRRFATLQNE LQSSLDAQKE STGVTTLRQR RKPVFHLSHE</p> <p>ERVQHRNIKD LKLAFSEFYL SLILLQNYQN LNFTGFRKIL KKHDKILETS RGADWRVAHV</p> <p>EVAPFYTCKK INQLISETEA VVTNELEDGD RQKAMKRLRV PPLGAAQPAP AWTTFRVGLF</p> <p>CGIFIVLNIT LVLAAVFKLE TDRSIWPLIR IYRGGFLLIE FLFLLGINTY GWRQAGVNHV LIFELNPRSN</p> <p>LSHQHLFEIA GFLGILWCLS LLACFFAPIS VIPTYVYPLA LYGFMVFFLI NPTKTFYYKS</p> <p>RFWLLKLLFR VFTAPFHKVG FADFWLADQL NSLSVILMDL EYMICFYSLE LKWDESKGLL</p> <p>PNNSEESGIC HKYTYGVRAI VQCIPAWLRF IQCLRRYRDT KRAFPHLVNA GKYSTTFFMV</p> <p>TFAALYSTHK ERGHSDTMFV FYLWIVFYII SSCYTLIWDL KMDWGLFDKN AGENTFLREE</p> <p>IVYPQKAYYY CAIIEDVILR FAWTIQISIT STTLLPHSGD IIATVFAPLE VFRRFVWNFF</p> <p>RLENEHLNNC GEFRAVRDIS VAPLNADDQT LLEQMMDQDD GVRNRQKNRS WKYNQSISLR</p>

RPRLASQSKA RDTKVLIEDT DDEANT **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	xpr1
Alternative Name:	XPR1 (xpr1 Products)
Background:	<p>Solute carrier family 53 member 1 (Phosphate exporter SLC53A1) (Protein SYG1 homolog) (Xenotropic and polytropic murine leukemia virus receptor X3) (X-receptor) (Xenotropic and polytropic retrovirus receptor 1),FUNCTION: Inorganic ion transporter that mediates phosphate ion export across plasma membrane. Plays a major role in phosphate homeostasis, preventing intracellular phosphate accumulation and possible calcium phosphate precipitation, ultimately preserving calcium signaling. The molecular mechanism of phosphate transport, whether electrogenic, electroneutral or coupled to other ions, remains to be elucidated (PubMed:23791524, PubMed:25938945, PubMed:31043717) (By similarity). Binds inositol hexakisphosphate (Ins6P) and similar inositol polyphosphates, such as 5-diphospho-inositol pentakisphosphate (5-InsP7), important intracellular signaling molecules involved in regulation</p>

Target Details

of phosphate flux (PubMed:27080106). {ECO:0000250|UniProtKB:Q9Z0U0, ECO:0000269|PubMed:23791524, ECO:0000269|PubMed:25938945, ECO:0000269|PubMed:27080106, ECO:0000269|PubMed:31043717}.

Molecular Weight: 81.5 kDa

UniProt: [Q9UBH6](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months