

Recombinant Human APLNR, GST-tagged

Cat. No. APLNR-9744H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human APLNR protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength C-term-80a.a.

Description This gene encodes a member of the G protein-coupled receptor gene family. The encoded protein is related to the angiotensin receptor, but is actually an apelin receptor that inhibits adenylate cyclase activity and plays a counter-regulatory role against the pressure action of angiotensin II by exerting hypertensive effect. It functions in the cardiovascular and central nervous systems, in glucose metabolism, in embryonic and tumor angiogenesis and as a human immunodeficiency virus (HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	APLNR apelin receptor [Homo sapiens]
Official Symbol	APLNR
Synonyms	APLNR; apelin receptor; AGTRL1, angiotensin II receptor like 1; APJ; APJ (apelin) receptor; APJR; FLJ90771; APJ receptor; HG11 orphan receptor; angiotensin receptor-like 1; G protein-coupled receptor APJ; G-protein coupled receptor APJ; angiotensin II receptor-like 1; G-protein coupled receptor HG11; HG11; AGTRL1; FLJ96609; MGC45246;
Gene ID	187
mRNA Refseq	NM_005161
Protein Refseq	NP_005152
MIM	600052
UniProt ID	P35414
Chromosome Location	11q12.1
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem;
Function	G-protein coupled receptor activity; receptor activity; signal transducer activity;

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