

Recombinant Mouse Adgra2 Protein, Myc/DDK-tagged

Cat. No. Adgra2-1538M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length adhesion G protein-coupled receptor A2 (Adgra2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Endothelial receptor which functions together with RECK to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B). Plays a key role in Wnt7-specific responses, such as endothelial cell sprouting and migration in the forebrain and neural tube, and establishment of the blood-brain barrier. Acts as a Wnt7-specific coactivator of canonical Wnt signaling: required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex. ADGRA2-tethering function does not rely on its G-protein coupled receptor (GPCR) structure but instead on its combined capacity to interact with RECK extracellularly and recruit the Dishevelled scaffolding protein intracellularly. Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate.
Molecular Mass	142.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Adgra2 adhesion G protein-coupled receptor A2 [Mus musculus (house mouse)]
Official Symbol	Adgra2
Synonyms	Adgra2; adhesion G protein-coupled receptor A2; Gpr1; Tem5; Gpr124; mKIAA1531; 8430414O08Rik; 9530074E10Rik; adhesion G protein-coupled receptor A2; G protein coupled receptor Gpr124; G-protein coupled receptor 124; tumor endothelial marker 5
Gene ID	78560
mRNA Refseq	NM_054044
Protein Refseq	NP_473385
UniProt ID	Q91ZV8

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