

## Recombinant Human DRD5

**Cat. No.** DRD5-12H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human DRD5, fused without tag, was expressed in wheat germ.

**Species**                      Human

**Source**                        Wheat Germ

**Description**                This gene encodes the D5 subtype of the dopamine receptor. The D5 subtype is a G-protein coupled receptor which stimulates adenylyl cyclase. This receptor is expressed in neurons in the limbic regions of the brain. It has a 10-fold higher affinity for dopamine than the D1 subtype. Pseudogenes related to this gene reside on chromosomes 1 and 2.

**Form**                            Liquid

**Molecular Mass**            52.47 kDa

**AA Sequence**

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MLPPGSNGTAYPGQFALYQQLAQGNAVGGSSAGAPPLGPSQVVTACLLTLLIIWTLG
NVLVCAAIVRSRHLRANM TNVFIVSLAVSDFVALLVMPWKAVA EVAGYWPFGAFC
DVWVAFDIMCSTASILNLCVISVDRYWAI SRPFYKR KMTQRMALVMVGLAWTSLILI
SFIPVQLNWHRDQAASWGGLDLPNNLANWTPWEEDFWEPDVNAENCDSSLNRTY
AISSSLISFYIPVAIMIVTYTRIIYRIAQVQIRRISSLERAAEHAQSCRSSAACAPDTSLRA
SIKKETKVLKTL SV IMGV FVCCWLPFFILNCMPFCSGHPEGPPAGFPCVSETTFDV
FVWFGWANSSLNPVIYAFNADFQKVFAQLLGC SHFCSRTPVETVNI SNELISYNQDI
VFHKEIAAAAYIHMMPNNAVTPGNREVDNDEEEGPFDRMFQIYQTSPDGPV AESVW
ELDCEGEISLDKITPFTPNGFH
    
```

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<b>Applications</b>	Antibody Production; Functional Study; Compound Screening
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	DRD5 dopamine receptor D5 [ Homo sapiens (human) ]
<b>Official Symbol</b>	DRD5
<b>Synonyms</b>	DRD5; dopamine receptor D5; DBDR; DRD1B; DRD1L2; D(1B) dopamine receptor; D1beta dopamine receptor; d(5) dopamine receptor; dopamine D5 receptor; dopamine receptor D1B
<b>Gene ID</b>	1816
<b>mRNA Refseq</b>	NM_000798
<b>Protein Refseq</b>	NP_000789
<b>MIM</b>	126453
<b>UniProt ID</b>	P21918
<b>Chromosome Location</b>	4p16.1
<b>Pathway</b>	Amine ligand-binding receptors; Calcium signaling pathway; Defective ACTH causes

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Obesity and Pro-opiomelanocortin deficiency (POMCD)

**Function**

G-protein coupled amine receptor activity; dopamine binding; dopamine neurotransmitter receptor activity

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