

Recombinant Human DRD1

Cat. No. DRD1-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DRD1, fused without tag, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes the D1 subtype of the dopamine receptor. The D1 subtype is the most abundant dopamine receptor in the central nervous system. This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2-mediated events. Alternate transcription initiation sites result in two transcript variants of this gene.
Form	Liquid
Molecular Mass	49.3 kDa
AA Sequence	MRTLNTSAMDGTGLVVERDFSVRILTACFLSLLILSTLLGNTLVCAAVIRFRHLRSKVT NFFVISLAVSDLLVAV LVMPWKAVAEIAGFWPFGSFCNIWVAFDIMCSTASILNLCVI SVDRYWAISSPFRYERKMTPKAAFILISVAWTL SVLISFIPVQLSWHKAKPTSPSDGN ATSLAETIDNCDSSLSRTYAISSSVISFYIPVAIMIVTYTRIYRIAQKQI RRIAALERA AAV HAKNCQTTTGNGKPVESQPESSFKMSFKRETKVLKTLVIMGVFVCCWLPFFILNC ILPFCGS GETQPFCDISNTFDVFWFGWANSSLNPIIYAFNADFRKAFSTLLGCYRL CPATNNAIETVSINNNGAAMFSSHH EPRGSISKECNLVYLIPHAVGSSSEDLKKEEAA GIARPLEKLSPALSVILDYDTDVSLEKIQPITQNGQHPT

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

GENE INFORMATION

Gene Name	DRD1 dopamine receptor D1 [Homo sapiens (human)]
Official Symbol	DRD1
Synonyms	DRD1; dopamine receptor D1; DADR; DRD1A; D(1A) dopamine receptor; dopamine D1 receptor
Gene ID	1812
mRNA Refseq	NM_000794
Protein Refseq	NP_000785
MIM	126449
UniProt ID	P21728
Chromosome Location	5q35.1
Pathway	Amine ligand-binding receptor; Amphetamine addiction; Class A/1 (Rhodopsin-like receptors)

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Function

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

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