

Recombinant Human DRD1 HEK293T cell lysate

Cat. No. DRD1-20HL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DRD1 derived in Human HEK293T cell line.
Species	Human
Source	HEK293
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	1 vial of 100 ug gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 ?g empty vector transfected control cell lysate in RIPA buffer 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)
Molecular Mass	49.1 kDa
Storage	The lysate is shipped with dry ice. Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles. Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term

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storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	DRD1 dopamine receptor D1 [Homo sapiens]
Official Symbol	DRD1
Synonyms	DRD1; dopamine receptor D1; D(1A) dopamine receptor; dopamine D1 receptor; DADR; DRD1A;
Gene ID	1812
mRNA Refseq	NM_000794
Protein Refseq	NP_000785
MIM	126449
UniProt ID	P21728
Chromosome Location	5q34-q35
Pathway	Amine ligand-binding receptors, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cocaine addiction, organism-specific biosystem;
Function	G-protein coupled receptor activity; dopamine binding; dopamine receptor activity;

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dopamine receptor activity, coupled via Gs; dopamine receptor activity, coupled via Gs; drug binding; protein binding; receptor activity; signal transducer activity;

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