

Recombinant Human DRD2 HEK293T cell lysate

Cat. No. DRD2-21HL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DRD2 derived in Human HEK293T cell line.
Species	Human
Source	HEK293
Description	This gene encodes the D2 subtype of the dopamine receptor. This G-protein coupled receptor inhibits adenylyl cyclase activity. A missense mutation in this gene causes myoclonus dystonia; other mutations have been associated with schizophrenia. Alternative splicing of this gene results in two transcript variants encoding different isoforms. A third variant has been described, but it has not been determined whether this form is normal or due to aberrant splicing.
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	47.2 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	DRD2 dopamine receptor D2 [Homo sapiens]
Official Symbol	DRD2
Synonyms	DRD2; dopamine receptor D2; D(2) dopamine receptor; dopamine D2 receptor; dopamine receptor D2 isoform; seven transmembrane helix receptor; D2R; D2DR;
Gene ID	1813
mRNA Refseq	NM_016574
Protein Refseq	NP_057658
MIM	126450
UniProt ID	P14416
Chromosome Location	11q22-q23
Pathway	Amine ligand-binding receptors, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cocaine addiction, organism-specific biosystem; Cocaine addiction, conserved biosystem; Dopamine receptors, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem;
Function	G-protein coupled receptor activity; dopamine binding; dopamine receptor activity,

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coupled via Gi/Go; dopamine receptor activity, coupled via Gi/Go; drug binding; drug binding; ionotropic glutamate receptor binding; potassium channel regulator activity; protein binding; receptor activity; receptor binding; signal transducer activity;

Western validation with an anti-DDK antibody*

L: Control HEK293 lysate

R: Over-expression lysate

