

Recombinant Human DRD5, His-tagged

Cat. No. DRD5-12165H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human DRD5 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

Species Human

Source E.coli

ProteinLength C-term-127a.a.

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.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name DRD5 dopamine receptor D5 [Homo sapiens]

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Official Symbol	DRD5
Synonyms	DRD5; dopamine receptor D5; DRD1L2; D(1B) dopamine receptor; DRD1B; dopamine D5 receptor; dopamine receptor D1B; d(5) dopamine receptor; D1beta dopamine receptor; DBDR; MGC10601;
Gene ID	1816
mRNA Refseq	NM_000798
Protein Refseq	NP_000789
UniProt ID	P21918
Chromosome Location	4p16.1
Pathway	Amine ligand-binding receptors, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Dopamine receptors, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem;
Function	G-protein alpha-subunit binding; G-protein coupled receptor activity; dopamine binding; dopamine receptor activity; dopamine receptor activity, coupled via Gs; drug binding; receptor activity; signal transducer activity;

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