

PRODUCT INFORMATION

DRD4 **Target**

DRD4, D4R, Dopamine receptor D4, Dopamine D4 **Synonyms**

receptor, D4

Recombinant human DRD4 Protein with C-**Description**

terminal human Fc tag

Delivery In Stock P21917 **Uniprot ID Expression Host** HFK293

Tag C-Human Fc tag

Molecular

Background

Purity

DRD4(Met1-Gly29) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 28.7 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & - 8% trehalose is added as protectants before Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

Storage & Shipping at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

DRD4 (Dopamine receptor D4) is a G-protein coupled receptor (GPCR) that primarily couples to Gi/o proteins, inhibiting adenylyl cyclase and reducing intracellular cAMP. It is mainly

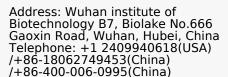
expressed in prefrontal cortex, limbic system, and retina, where it modulates cognition, attention,

emotion, and behavioral flexibility.
Polymorphisms in DRD4 are associated with

attention-deficit hyperactivity disorder (ADHD), novelty-seeking behavior, and susceptibility to psychiatric disorders, making it a relevant therapeutic and research target in neuroscience.

Usage Research use only Conjugate Unconjugated

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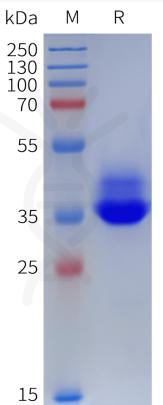


Figure 1. Human DRD4 Protein, hFc Tag on SDS-PAGE under reducing condition.

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