PRODUCT INFORMATION

Target	DRD3
Synonyms	DRD3, D3R, D3, Dopamine receptor D3, Dopamine D3 receptor
Description	Recombinant human DRD3 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P35462
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	DRD3(Met1-Ala30) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 29.2 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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 at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Background	DRD3 (Dopamine receptor D3) is a G-protein coupled receptor (GPCR) that primarily couples to Gi/o proteins, inhibiting adenylyl cyclase and decreasing intracellular cAMP. It is predominantly expressed in the limbic regions of the brain, including the nucleus accumbens and olfactory tubercle, where it regulates reward, emotion, cognition, and motor control. DRD3 plays a role in neuropsychiatric disorders such as schizophrenia, Parkinson’s disease, and addiction, making it a potential therapeutic target for psychiatric and neurological conditions
Usage	Research use only
Conjugate	Unconjugated

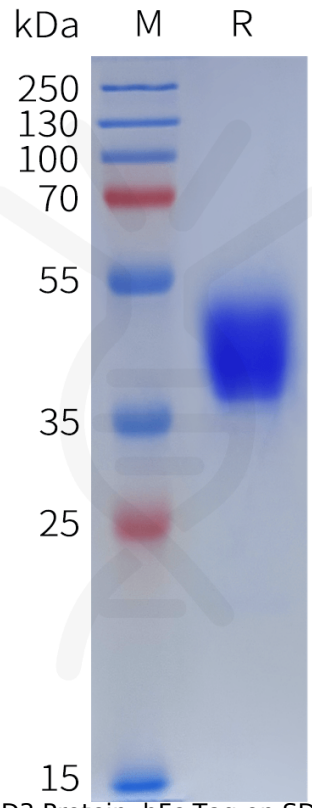

Figure 1. Human DRD3 Protein, hFc Tag on SDS-PAGE under reducing condition.