

# Product Information

## **MemDX™ Membrane Protein Human GPR50 (G protein-coupled receptor 50) Expressed *in vitro* *E.coli* expression system, Full Length**

Cat. No.: **MPX3645K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human GPR50 membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### **Host Species**

Human

#### **Target Protein**

GPR50

#### **Protein Length**

Full Length

#### **Protein Class**

GPCR

#### **TMD**

7

#### **Sequence**

MGPTLAVPTPYGCIGCKLPQPEYPPALIFMFCAMVITIVVDLIGNSMVILAVTKNKKLRNSGNIFVVSLSVADMLVAIYPYPLMLHAMS

### Product Description

#### **Expression Systems**

*in vitro* *E.coli* expression system

#### **Tag**

10xHis tag at the N-terminus

#### **Protein Format**

Soluble

#### **Form**

Liquid or Lyophilized powder

#### **Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

### **Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

### **Target**

#### **Target Protein**

GPR50

#### **Full Name**

G protein-coupled receptor 50

#### **Introduction**

This gene product belongs to the G-protein coupled receptor 1 family. Even though this protein shares similarity with the melatonin receptors, it does not bind melatonin, however, it inhibits melatonin receptor 1A function through heterodimerization. Polymorphic variants of this gene have been associated with bipolar affective disorder in women.

#### **Alternative Names**

GPR50; H9; Mel1c; melatonin-related receptor; G protein-coupled receptor 50

#### **Gene ID**

[9248](#)

#### **UniProt ID**

[Q13585](#)