

# Product Information

## MemDX™ Recombinant Human HTR7 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **S01YF-0622-KX71**

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

This product is recombinant Human HTR7 in VLPs form. This product is produced from HEK293 by co-expressing the retroviral structural core polyprotein (gag) and the target membrane protein. MP-VLPs display highly-expressed copies of membrane proteins in their native conformation, providing an alternative to membrane protein stable cell lines, membrane preparations, detergent-solubilized proteins and other membrane protein preparation strategies. MP-VLPs can be used for a wide range of applications in antibody production, antibody discovery, antibody characterization, binding assays and functional assays.

### Product Specifications

#### Host Species

Human

#### Target Protein

HTR7

#### Protein Length

Full length

#### Protein Class

GPCR

#### TMD

7

#### Sequence

MMDVNSSGRPDLYGHLRSFLLPEVGRGLPDLS PDGGADPVAGSWAPHLLSEVTAS PAPTWDAPPDNASGCGEQIN YGRVEKVV

### Product Description

#### Application

ELISA; Antibody Production; Antibody Discovery; Antibody Characterization; Binding Assays; Functional Assays

#### Expression Systems

HEK293 expression system

#### Tag

10xHis tag at the C-terminus

#### Protein Format

Membrane Protein-Virus Like Particles (MP-VLPs)

**Form**

Liquid

**Buffer**

PBS, 6% Trehalose, pH 7.4

**Storage**

The product should be stored at -20°C or lower. Avoid freeze-thaw cycles.

**Target****Target Protein**

HTR7

**Full Name**

5-hydroxytryptamine receptor 7

**Introduction**

The neurotransmitter, serotonin, is thought to play a role in various cognitive and behavioral functions. The serotonin receptor encoded by this gene belongs to the superfamily of G protein-coupled receptors and the gene is a candidate locus for involvement in autistic disorder and other neuropsychiatric disorders. Three splice variants have been identified which encode proteins that differ in the length of their carboxy terminal ends.

**Alternative Names**

5-HT7; 5-HT-7; 5-HT-X; 5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled); HTR7; 5-hydroxytryptamine receptor 7

**Gene ID**

[3363](#)

**UniProt ID**

[P34969](#)