

# Product Information

## **MemDX™ Membrane Protein Human SYP (Synaptophysin) Expressed *in vitro* E.coli** **expression system, Full Length**

Cat. No.: **MPX4055K**

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

This product is a Human SYP 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

SYP

#### Protein Length

Full Length

#### Protein Class

Receptor

#### TMD

4

#### Sequence

MLLLADMDVVNQLVAGGQFRVVKELPLGFVKVLQWVFAIFAFATCGSYSGELQLSVDCANKTESDLSIEVEFEYPPFRLHQVYFDAPT

### 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**

SYP

#### **Full Name**

Synaptophysin

#### **Introduction**

This gene encodes an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with an X-linked form of cognitive disability.

#### **Alternative Names**

SYP; MRX96; MRXSYP; XLID96; major synaptic vesicle protein P38; Synaptophysin

#### **Gene ID**

[6855](#)

#### **UniProt ID**

[P08247](#)