

# Product Information

## **MemDX™ Membrane Protein Human HRH1 (Histamine receptor H1) Expressed *in vitro* E.coli expression system, Full Length**

Cat. No.: **MPX4065K**

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

This product is a Human HRH1 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

HRH1

#### Protein Length

Full Length

#### Protein Class

GPCR

#### TMD

7

#### Sequence

MSLPNSSCLLEDKMCEGNKTTMASPQLMPLVVVLSTICLVTVGLNLLVLYAVRSEKRLHTVGNYIVSLSVADLIVGAVVMPMNILYL

### Product Description

#### Expression Systems

*in vitro* E.coli expression system

#### Tag

10xHis and SUMO tag

#### 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

HRH1

#### Full Name

Histamine receptor H1

#### Introduction

Histamine is a ubiquitous messenger molecule released from mast cells, enterochromaffin-like cells, and neurons. Its various actions are mediated by histamine receptors H1, H2, H3 and H4. The protein encoded by this gene is an integral membrane protein and belongs to the G protein-coupled receptor superfamily. It mediates the contraction of smooth muscles, the increase in capillary permeability due to contraction of terminal venules, the release of catecholamine from adrenal medulla, and neurotransmission in the central nervous system. It has been associated with multiple processes, including memory and learning, circadian rhythm, and thermoregulation. It is also known to contribute to the pathophysiology of allergic diseases such as atopic dermatitis, asthma, anaphylaxis and allergic rhinitis. Multiple alternatively spliced variants, encoding the same protein, have been identified.

#### Alternative Names

HRH1; H1R; H1-R; HH1R; hisH1; histamine H1 receptor; histamine receptor, subclass H1; Histamine receptor H1

#### Gene ID

[3269](#)

#### UniProt ID

[P35367](#)