# MRGPRX2 Protein, Human (Cell-Free, His)

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| **Cat. No.:** | HY-P702380 |
| **Synonyms:** | Mas-related G-protein coupled receptor member X2 |
| **Species:** | Human |
| **Source:** | E. coli Cell-free |
| **Accession:** | Q96LB1 (M1-V330) |
| **Gene ID:** | 117194 |
| **Molecular Weight:** | 43.1 kDa |

## PROPERTIES

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| **AA Sequence** | M D P T T P A W G T E S T T V N G N D Q A L L L L C G K E T L I P V F L I L F I<br>A L V G L V G N G F V L W L L G F R M R R N A F S V Y Y V L S L A G A D F L F L C<br>F Q I I N C L V Y L S N F F C S I S I N F P S F F T T V M T C A Y L A G L S M L<br>S T V S T E R C L S V L W P I W Y R C R R P R H L S A V V C V L L W A L S L L L<br>S I L E G K F C G F L F S D G D S G W C Q T F D F I T A A W L I F L F M V L C G<br>S S L A L L V R I L C G S R G L P L T R L Y L T I L L T V L V F L L C G L P F G<br>I Q W F L I L W I W K D S D V L F C H I H P V S V V L S S L N S S A N P I I Y F<br>F V G S F R K Q W R L Q Q P I L K L A L Q R A L Q D I A E V D H S E G C F R Q G<br>T P E M S R S S L V |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

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| **Background** | MRGPRX2 Protein, a mast cell-specific receptor, functions as a receptor for basic secretagogues, including cationic amphiphilic drugs and peptides with a basic head group and a hydrophobic core. It recognizes small molecules with a |

cyclized tetrahydroisoquinoline, such as non-steroidal neuromuscular blocking drugs like tubocurarine and atracurium. Upon binding, MRGPRX2 mediates pseudo-allergic reactions marked by histamine release, inflammation, and airway contraction. Additionally, it serves as a receptor for various ligands, including peptides (cortistatin-14, proadrenomedullin N-terminal peptides PAMP-12 and PAMP-20, antibacterial protein LL-37, PMX-53 peptide, and beta-defensins) and alkaloids like complanadine A.



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