

MRGPRX2 Protein, Human (Cell-Free, His)

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:	Monomer:37 kDa Dimer: 74 kDa It is speculated that the protein forms a dimeric structure.

PROPERTIES

AA Sequence	MDPTTTPAWGT ESTTVNGNDQ ALLLLCGKET LIPVFLILFI ALVGLVGNGF VLWLLGFRMR RNAFSVYVLS LAGADFLFLC FQIINCLVYL SNFFCSISIN FPSFFTVM CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLLL SILEGKFCGF LFS DGD SGWC QTDFDITAAW LIFLFMVLCG SSLALLVRIL CGSRGLPLTR LYLTILLTVL VFLLCGLPFG IQWFLILWIW KDS DVL FCHI HPVS VVLSSL NSSANPIIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPEMSRSSLV
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, 0.05% Brij-78, 6%Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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

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
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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.

Caution: Product has not been fully validated for medical applications. For research use only.

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