

P2RY12 Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702411
Synonyms:	P2Y purinoceptor 12; P2Y12
Species:	Mouse
Source:	E. coli Cell-free
Accession:	Q9CPV9 (M1-M347)
Gene ID:	70839
Molecular Weight:	45.5 kDa

PROPERTIES

AA Sequence

MDVPGVNTTS	ANNTTFSPGTS	TLCVRDYKIT	QVLFPLLYTV
LF FAGLITNS	LAMRIFFQIR	SKSNFIIFLK	NTVISDLLMI
LTFFPKILSD	AKLGAGPLRT	LVCQVTSVTF	YFTMYISISF
LGLITIDRYL	KTTRPFKTSS	PSNLLGAKIL	SVVIWAFMFL
ISLPNMILTN	RRPKDKDVTK	CSFLKSEFGL	VWHEIVNYIC
QVIFWINFLI	VIVCYSLITK	ELYRSYVRTR	GSAKVPKKKV
NVKVFIIIAV	FFICFVPPHF	ARIPYTLSQT	RAVFDCSAEN
TLFYVKESTL	WLTSLNACLD	PFIYFFLCKS	FRNSLTSMLR
CSNSTSTSGT	NKKKGQEGGE	PSEETPM	

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/ μ g, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. 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

P2RY12 Protein, identified as a receptor for ADP and ATP, operates through G-proteins to inhibit the adenylyl cyclase second messenger system. Essential for normal platelet aggregation and blood coagulation, P2RY12 plays a crucial role in

mediating responses to nucleotide signals involved in these processes. Through its receptor function, it serves as a key regulator in platelet activation, contributing to the intricate machinery of hemostasis and coagulation. The inhibition of the adenylyl cyclase second messenger system by P2RY12 underscores its significance in orchestrating cellular responses and highlights its potential as a therapeutic target for modulating platelet function and blood clotting.

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

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