HTR7 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702328
Synonyms:	5-hydroxytryptamine receptor 7; 5-HT-X; Serotonin receptor 7
Species:	Human
Source:	E. coli Cell-free
Accession:	P34969 (M1-D479)
Gene ID:	3363
Molecular Weight:	56.4 kDa

PROPERTIES

AA Sequence	MMDVNSSGRP DLYGHLRSFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW DAPPDNASGC GEQINYGRVE KVVIGSILTL ITLLTIAGNC LVVISVCFVK KLRQPSNYLI VSLALADLSV AVAVMPFVSV TDLIGGKWIF GHFFCNVFIA MDVMCCTASI MTLCVISIDR YLGITRPLTY PVRQNGKCMA KMILSVWLLS ASITLPPLFG WAQNVNDDKV CLISQDFGYT IYSTAVAFYI PMSVMLFMYY QIYKAARKSA AKHKFPGFPR VEPDSVIALN GIVKLQKEVE ECANLSRLLK HERKNISIFK REQKAATTLG IIVGAFTVCW LPFFLLSTAR PFICGTSCSC IPLWVERTFL WLGYANSLIN PFIYAFFNRD LRTTYRSLLQ CQYRNINRKL SAAGMHEALK LAERPERPEF VLRACTRRVL LRPEKRPPVS VWVLQSPDHH NWLADKMLTT VEKKVMIHD
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

Background	The HTR7 protein represents one of the various receptors for 5-hydroxytryptamine (serotonin), a multifunctional biogenic hormone acting as a neurotransmitter, hormone, and mitogen. The receptor's activity is orchestrated through G proteins, specifically those that activate adenylate cyclase. This highlights the pivotal role of HTR7 in transducing signals initiated by serotonin, emphasizing its involvement in diverse physiological processes regulated by cyclic AMP signaling pathways. The interaction with serotonin and subsequent activation of adenylate cyclase underscore HTR7's significance in mediating cellular responses to this crucial neurotransmitter and hormone, contributing to the broader understanding of serotonin's effects in various biological contexts.

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