

HTR3D Protein, Human (Cell-Free, His, SUMO)

Cat. No.:	HY-P702326
Synonyms:	5-hydroxytryptamine receptor 3D; Serotonin receptor 3D
Species:	Human
Source:	E. coli Cell-free
Accession:	Q70Z44 (V221-T454)
Gene ID:	200909
Molecular Weight:	41.5 kDa

PROPERTIES

AA Sequence	<p>V A I R R R C R P S P Y V V N F L V P S G I L I A I D A L S F Y L P L E S G N C</p> <p>A P F K M T V L L G Y S V F L L M M N D L L P A T S T S S H A S L V A P L A L M</p> <p>Q T P L P A G V Y F A L C L S L M V G S L L E T I F I T H L L H V A T T Q P L P</p> <p>L P R W L H S L L L H C T G Q G R C C P T A P Q K G N K G P G L T P T H L P G V</p> <p>K E P E V S A G Q M P G P G E A E L T G G S E W T R A Q R E H E A Q K Q H S V E</p> <p>L W V Q F S H A M D A L L F R L Y L L F M A S S I I T V I C L W N T</p>
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.
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	The HTR3D protein is a key component in the formation of serotonin (5-hydroxytryptamine/5-HT ₃)-activated cation-selective channel complexes. Upon activation, these complexes induce fast, depolarizing responses in neurons. This highlights the critical role of HTR3D in mediating the cellular response to serotonin signaling. As a part of these channel complexes, HTR3D contributes to the regulation of neuronal excitability, impacting various physiological processes influenced by serotonin, such as mood, appetite, and cognition.
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Caution: Product has not been fully validated for medical applications. For research use only.

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