TAS1R2 Protein, Human (Cell-Free, 273a.a, His)

Cat. No.:	HY-P702466
Synonyms:	Taste receptor type 1 member 2; G-protein coupled receptor 71; Sweet taste receptor T1R2
Species:	Human
Source:	E. coli Cell-free
Accession:	Q8TE23 (I567-D839)
Gene ID:	80834
Molecular Weight:	32.0 kDa

PROPERTIES

AA Sequence	I A V A L L A A L G F L S T L A I L V I F W R H F Q T P I V R S A G G P M C F L M L T L L L V A Y M V V P V Y V G P P K V S T C L C R Q A L F P L C F T I C I S C I A V R S F Q I V C A F K M A S R F P R A Y S Y W V R Y Q G P Y V S M A F I T V L K M V I V V I G M L A T G L S P T T R T D P D D P K I T I V S C N P N Y R N S L L F N T S L D L L L S V V G F S F A Y M G K E L P T N Y N E A K F I T L S M T F Y F T S S V S L C T F M S A Y S G V L V T I V D L L V T V L N L L A I S L G Y F G P K C Y M I L F Y P E R N T P A Y F N S M I Q G Y T M R R D
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	TAS1R2 is a putative taste receptor known for its role in recognizing a wide range of natural and synthetic sweeteners. Functioning as part of a heterodimeric complex with TAS1R3, it plays a crucial role in the perception of sweetness. The receptor's ability to respond to diverse sweet compounds highlights its significance in the sensory experience of taste. Further studies are required to unveil the comprehensive molecular mechanisms underlying its interaction with various

	sweet stimuli and its contribution to taste perception.

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

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