VSTM5 Protein, Human (His)

Cat. No.:	HY-P71443
Synonyms:	Chromosome 11 open reading frame 90; CK090 HUMAN; Uncharacterized protein C11orf90; V set and transmembrane domain containing 5; V-set and transmembrane domain-containing protein 5
Species:	Human
Source:	E. coli
Accession:	A8MXK1 (29L-147H)
Gene ID:	387804
Molecular Weight:	Approximately 19.3 kDa

PROPERTIES

AA Sequence	L Q S Q G V S L Y I P Q A T I N A T V K E D I L L S V E Y S C H G V P T I E W T Y S S N W G T Q K I V E W K P G T Q A N I S Q S H K D R V C T F D N G S I Q L F S V G V R D S G Y Y V I T V T E R L G S S Q F G T I V L H V S E I L Y E D L H
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 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.
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	VSTM5, a cell adhesion-like membrane protein predominantly found in the central nervous system (CNS), exerts a significant impact on the positioning and intricacy of central neurons by modifying their membrane morphology and dynamics. Functionally, VSTM5 is involved in shaping neuronal dendrites and protrusions, including dendritic filopodia, and plays a pivotal role in synaptogenesis by regulating synapse formation through alterations in dendritic spine morphology and actin distribution. Notably, it promotes the formation of unstable neuronal spines, particularly of the thin and branched types. During cortical development in the brain, VSTM5 plays a regulatory role in neuronal morphogenesis and migration. Furthermore, VSTM5 demonstrates the ability to homooligomerize through cis interactions within the same cell membrane.

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

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