Islet cell autoantigen 1/ICA1, Human (P.pastoris, His)

Cat. No.:	HY-P72274
Synonyms:	ICA69
Species:	Human
Source:	P. pastoris
Accession:	Q05084-3 (M1-A482)
Gene ID:	3382
Molecular Weight:	Approximately 62 kDa

PROPERTIES

AA Sequence	MSGHKCYPWD LQDRYAQDKS VVNKMQQKYW ETKQAFIKAT GKKEDEHVVA SDADLDAKLE LFHSIQRTCL DLSKAIVLYQ KRICFLSQEE NELGKFLRSQ GFQDKTRAGK MMQATGKALC FSSQQRLALR NPLCRFHQEV ETFRHRAISD TWLTVNRMEQ CRTEYRGALL WMKDVSQELD PDLYKQMEKF RKVQTQVRLA KKNFDKLKMD VCQKVDLLGA SRCNLLSHML ATYQTTLLHF WEKTSHTMAA IHESFKGYQP YEFTTLKSLQ DPMKKLVEKE EKKKINQQES TDAAVQEPSQ LISLEEENQR KESSSFKTED GKSILSALDK GSTHTACSGP IDELLDMKSE EGACLGPVAG TPEPEGADKD DLLLLSEIFN ASSLEEGEFS KEWAAVFGDG QVKEPVPTMA LGEPDPKAQT GSGFLPSQLL DQNMKDLQAS LQEPAKAASD LTAWFSLFAD LDPLSNPDAV GKTDKEHELL NA
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 3% Trehalose, pH 8.0.
Endotoxin Level	<1.0 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	Islet cell autoantigen 1 (ICA1) is suggested to potentially play a role in neurotransmitter secretion, highlighting its involvement in the intricate processes related to synaptic transmission. The functional implication suggests that ICA1 may contribute to the regulated release of neurotransmitters, a critical aspect of neuronal communication. The specific mechanisms by which ICA1 modulates neurotransmitter secretion and its precise role in synaptic function remain areas of interest, warranting further exploration to unravel its functional significance and molecular contributions in the context of neuronal processes and communication within the nervous system.

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