ADRA2A-VLPs Protein, Human (HEK293, His)

Cat. No.:	HY-P702203
Synonyms:	Alpha-2A adrenergic receptor; Alpha-2 adrenergic receptor subtype C10; Alpha-2A adrenoreceptor; Alpha-2A adrenoceptor; Alpha-2AAR
Species:	Human
Source:	HEK293
Accession:	P08913 (M1-V465)
Gene ID:	150
Molecular Weight:	52.0 kDa

PROPERTIES

AA Sequence	MFRQEQPLAE GSFAPMGSLQ PDAGNASWNG TEAPGGGARA TPYSLQVTLT LVCLAGLLML LTVFGNVLVI IAVFTSRALK APQNLFLVSL ASADILVATL VIPFSLANEV MGYWYFGKAW CEIYLALDVL FCTSSIVHLC AISLDRYWSI TQAIEYNLKR TPRRIKAIII TVWVISAVIS FPPLISIEKK GGGGGPQPAE PRCEINDQKW YVISSCIGSF FAPCLIMILV YVRIYQIAKR RTRVPPSRRG PDAVAAPPGG TERRPNGLGP ERSAGPGGAE AEPLPTQLNG APGEPAPAGP RDTDALDLEE SSSSDHAERP PGPRRPERGP RGKGKARASQ VKPGDSLPRR GPGATGIGTP AAGPGEERVG AAKASRWRGR QNREKRFTFV LAVVIGVFVV CWFPFFFTYT LTAVGCSVPR TLFKFFFWFG YCNSSLNPVI YTIFNHDFRR AFKKILCRGD RKRIV
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. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing.
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	ADRA2A-VLPs Protein, representing alpha-2 adrenergic receptors, play a crucial role in mediating the inhibition of adenylate cyclase induced by catecholamines through G protein action. The potency order for agonists targeting this receptor includes oxymetazoline, clonidine, epinephrine, norepinephrine, phenylephrine, dopamine, p-synephrine, p-tyramine, serotonin, and p-octopamine. Conversely, the rank order for antagonists comprises yohimbine, phentolamine, mianserine, chlorpromazine, spiperone, prazosin, propranolol, alprenolol, and pindolol. These findings delineate the pharmacological profile of ADRA2A-VLPs, shedding light on their responsiveness to various agonists and antagonists and providing insights into the intricate regulatory mechanisms governing adenylate cyclase inhibition in response to catecholamine signaling.

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