

CACNA2D1 Protein, Human (His-SUMO)

Cat. No.:	HY-P72109
Synonyms:	CA2D1_HUMAN; CACN A2; CACNA2; Cacna2d1; CACNL2A; Calcium channel L type alpha 2 polypeptide; Calcium channel voltage dependent alpha 2/delta subunit 1; CCHL2A; Dihydropyridine receptor alpha 2 subunit; Dihydropyridine sensitive L type calcium channel alpha 2/delta subunit; Dihydropyridine sensitive L type calcium channel subunits alpha 2/delta; L type calcium channel subunit alpha 2; MHS 3; MHS3; Voltage dependent calcium channel subunit alpha 2/delta 1; Voltage gated calcium channel subunit alpha 2/delta 1; Voltage- dependent calcium channel subunit delta-1; Voltage-gated calcium channel subunit alpha- 2/delta-1
Species:	Human
Source:	E. coli
Accession:	P54289 (Q528-N668)
Gene ID:	781
Molecular Weight:	Approximately 32.3 kDa

PROPERTIES

AA Sequence	QPKPIGVGIP TINLRKRRPN IQNPKSQEPV TLDFLDAELE NDIKVEIRNK MIDGESGEKT FRTLVKSQDE RYIDKGNRTY TWTPVNGTDY SLALVLPTYS FYYIKAKLEE TITQARYSET LKPDNFEESG YTFIAPRDYC N
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ 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	The CACNA2D1 protein, specifically its alpha-2/delta subu
	contraction coupling, contributing to the coordination of co
	alpha-2-1 and delta-1 chains through disulfide linkage, cons

dependent calcium channels. These channels are intricate multisubunit complexes, composed of alpha-1 (CACNA1), alpha-2 (CACNA2D), beta (CACNB), and delta (CACNA2D) subunits in a 1:1:1:1 ratio. The functional and structural involvement of CACNA2D1 underscores its significance in the precise modulation of calcium signaling and cellular responses.

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

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