

Cadherin-12/CDH12 Protein, Human (HEK293, His)

Cat. No.:	HY-P75667
Synonyms:	CDH12; cadherin 12, type 2 (N-cadherin 2); cadherin-12; Br cadherin; CDHB; Br-cadherin; N-cadherin 2; brain cadherin; brain-cadherin; neuronal cadherin 2; neural type cadherin 2; cadherin, neural type, 2; FLJ34857;
Species:	Human
Source:	HEK293
Accession:	P55289-1/NP_001304156.1 (Q24-A605)
Gene ID:	1010
Molecular Weight:	80-85 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM sodium citrate, 50 mM NaCl, 2 mM CaCl ₂ , pH 6.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	Cadherin-12/CDH12 protein, belonging to the cadherin family, operates as a calcium-dependent cell adhesion protein. Known for its preferential homophilic interaction, Cadherin-12/CDH12 engages in binding with itself between connecting cells. This homophilic cadherin interaction implies a significant role in mediating cell adhesion and may play a crucial part in the intricate process of sorting heterogeneous cell types. Through its calcium-dependent adhesive properties, Cadherin-12/CDH12 likely contributes to the establishment of selective connections between cells, thereby participating in the dynamic regulation of cellular interactions and tissue organization.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA