OCAM/NCAM2 Protein, Human (HEK293, His)

Cat. No.:	HY-P76506
Synonyms:	Neural cell adhesion molecule 2; NCAM-2; NCAM21
Species:	Human
Source:	HEK293
Accession:	O15394 (M1-N697)
Gene ID:	4685
Molecular Weight:	Approximately 90.1 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. 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.
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	OCAM/NCAM2 Protein emerges as a potential key player, indicating its critical roles in selective fasciculation and zone-to-zone projection of primary olfactory axons. The specific mechanisms through which OCAM/NCAM2 contributes to these intricate processes remain to be fully elucidated, prompting further investigation into its functional significance in guiding the development and projection of olfactory axons. The proposed involvement of OCAM/NCAM2 in selective fasciculation underscores its potential impact on the formation of defined axonal bundles, while its role in zone-to-zone projection suggests a regulatory influence on the spatial organization of olfactory axons within distinct regions. The nuanced functions proposed for OCAM/NCAM2 highlight its significance in shaping the intricate neural circuitry associated with the primary olfactory system. Further research is essential to unravel the precise molecular pathways through which OCAM/NCAM2 orchestrates these crucial developmental events.

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