

Product Data Sheet

Doublecortin/DCX Protein, Human (His)

Cat. No.:	HY-P75282
Synonyms:	Neuronal migration protein doublecortin; Doublin; Lis-X; DCX
Species:	Human
Source:	E. coli
Accession:	O43602-2 (A45-V150)
Gene ID:	1641
Molecular Weight:	Approximately 13 kDa

DDODEDTIEC				
PROPERTIES				
AA Sequence				
	ALSNEKKAKK	VRFYRNGDRY	FKGIVYAVSS	DRFRSFDALI
	ADLTRSLSDN	INLPQGVRYI	YTIDGSRKIG	SMDELEEGES
	Y V C S S D N F F K	KVEYTKNVNP	NWSVNV	
Appearance	Lyophilized powder.			
Formulation	Lyophilized from a 0.22 μι	m filtered solution of 50 mM	Tris-HCL, 300 mM NaCl, pH 7	7.4.
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Endotoxin Level	<1 EU/µg, determined by	LAL method.		
Reconsititution	It is not recommended to	reconstitute to a concentral	tion less than 100 ug/mL in d	dH20. For long term sto
	recommended to add a ca	arrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trehald	ose).
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Storage & Stability	Stored at -20°C for 2 years	s. After reconstitution, it is st	able at 4°C for 1 week or -20°	°C for longer (with carrier
	recommended to freeze a	liquots at -20°C or -80°C for	extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.			

DESCRIPTION

Background	The Doublecortin/DCX Protein plays a pivotal role as a microtubule-associated protein in the early stages of neuronal
	dispersion and cortex lamination during cerebral cortex development. Its function may involve competing with the putative
	neuronal protein kinase DCLK1 for binding to a target protein, thereby participating in a crucial signaling pathway essential
	for neuronal interaction before and during migration. This process is likely part of a calcium ion-dependent signal
	transduction pathway. Doublecortin/DCX may also collaborate with PAFAH1B1/LIS-1, contributing to overlapping yet
	distinct signaling pathways that collectively promote efficient neuronal migration. In this intricate cellular orchestration,
	Doublecortin/DCX interacts with tubulin and USP9X, emphasizing its involvement in the regulation of microtubule dynamics
	and highlighting its significance in the complex molecular pathways governing neuronal development.

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

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