

## Syndecan-3 Protein, Human (HEK293, His)

Cat. No.:	HY-P73624
Synonyms:	N-Syndecan; SDC3; SDCN; Syndecan-3; SYND3syndecan proteoglycan 3
Species:	Human
Source:	HEK293
Accession:	ABM82826 (M1-K311)
Gene ID:	9672
Molecular Weight:	Approximately 33.1 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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> 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	<p>Syndecans (sdcs) are heparan sulphate proteoglycans (HSPG) composed of a core protein to which heparan sulphate (HS) glycosaminoglycan chains are covalently attached. These molecules form part of the glycocalyx, which comprises a network of membrane-bound proteoglycans and glycoproteins at the cell surface of endothelial cells. There are four mammalian syndecans, designated syndecan-1 (sdc-1), -2, -3, and -4. Sdc-3 is the predominant syndecan in the nervous system, where it was first identified, and has been associated with the control of feeding behaviour and the generation of cerebellar fibrillar plaques in Alzheimer's disease. Sdc-3 is also an HSPG of the musculoskeletal system<sup>[1]</sup>.</p> <p>Syndecan-3 stabilizes the captured virus, enhances Dendritic cells (DCs) infection in cis, and promotes transmission to T cells. Removal of the HSs from the cell surface by heparinase III or by silencing syndecan-3 by siRNA partially inhibited HIV-1 transmission by immature DCs, whereas neutralizing both syndecan-3 and DC-SIGN completely abrogated HIV-1 capture and subsequent transmission. Syndecan-3 (SDC3) has the largest core protein of all four mammalian syndecans and can harbour both heparan sulphate and chondroitin sulphate chains<sup>[2][3]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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