

FOLR4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77938
Synonyms:	Folate receptor 4; FR-delta; Izumo1r; Folbp3; Juno; FOLR4, LOC390243
Species:	Mouse
Source:	HEK293
Accession:	Q9EQF4 (G20-G222)
Gene ID:	64931
Molecular Weight:	35-40 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	FOLR4, a receptor located at the oolemma (cell surface of oocytes), plays a pivotal role in species-specific gamete recognition and fertilization through its interaction with IZUMO1. This adhesion event is essential for successful fertilization, although it alone is not sufficient for cell fusion. Unlike its name might suggest, FOLR4 does not bind folate. Structurally, FOLR4 exists as a monomer and directly interacts with IZUMO1, forming a complex with a 1:1 stoichiometry. The IZUMO1:IZUMO1R/JUNO interaction mediated by FOLR4 is a crucial step in the intricate process of sperm and egg recognition, highlighting its significance in the fertilization cascade.
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Caution: Product has not been fully validated for medical applications. For research use only.

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