

FOLR4 Protein, Human (HEK293, His)

Cat. No.:	HY-P77936
Synonyms:	Folate receptor 4; FR-delta; Izumo1r; Folbp3; Juno; FOLR4, LOC390243
Species:	Human
Source:	HEK293
Accession:	A6ND01-1 (G20-S228)
Gene ID:	390243
Molecular Weight:	30-35 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	<p>FOLR4 Protein functions as a receptor for IZUMO1 at the cell surface of oocytes (oolemma), playing a crucial role in species-specific gamete recognition and fertilization. The interaction between IZUMO1 and its receptor FOLR4, known as IZUMO1R/JUNO, is an essential adhesion event between sperm and egg, necessary for fertilization, although it alone is not sufficient for cell fusion. Contrary to its name, FOLR4 does not bind folate, and its ligand-receptor interaction is not classified as a membrane 'fusogen.' Existing as a monomer, FOLR4 directly interacts with IZUMO1, forming a complex with 1:1 stoichiometry. Interestingly, FCRL3/MAIA replaces IZUMO1R/JUNO as the receptor for IZUMO1 after sperm-egg adhesion, facilitating species-specific gamete fusion. These interactions highlight the intricate molecular mechanisms underlying gamete recognition and fusion during the fertilization process.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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