

GNRHR2 Protein, Rhesus Macaque (Cell-Free, His)

Cat. No.:	HY-P702298
Synonyms:	Gonadotropin-releasing hormone II receptor; Type II GnRH receptor
Species:	Rhesus Macaque
Source:	E. coli Cell-free
Accession:	Q95JG1 (M1-I379)
Gene ID:	574163
Molecular Weight:	Monomer: 40 kDa Dimer: 80 kDa It is speculated that the protein forms a dimeric structure.

PROPERTIES

AA Sequence	<pre> MSAGNGTPWG SAAGEESWAA SGVAVEGSEL PTFSAAAKVR VGVTVLVLFVS SAGGNLAVLW SVTRPQPSQL RPSPVRTLFA HLAAADLLVT FVVMPLDATW NITVQWLAED IACRTLMFLK LMAMYSAAFL PVVIGLDRQA AVLNPLGSR GVRKLLGAAW GLSFL LALPQ LFLFHTVHRA GPVPFTQCVT KGSFKARWQE TTYNLFTFRC LFL LPLTAMA ICYSHIVLSV SSPQTRKGS H SH APAGEFALCR SFDNCPRVRL WALRLALLIL LTFILCWTPY YLLGLWYWFS PTMLTEVPPS LSHILFLFGL LNAPLDPLLY GAFTLGCQRG HQELSIDSSN EGSGRMLQQE IHALRQQEVQ KTVTTSRSAGE TKDISITSI </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, 0.05% Brij-78, 6%Trehalose, pH 7.4.
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 ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	GNRHR2, the receptor for gonadotropin-releasing hormone II (GnRH II), plays a pivotal role in cellular signaling by
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associating with G proteins to activate a phosphatidylinositol-calcium second messenger system. This molecular interaction enables GNRHR2 to transduce signals triggered by GnRH II, thereby regulating downstream cellular responses. The intricate coupling between GNRHR2 and intracellular signaling cascades underscores its significance in mediating the physiological effects of GnRH II and highlights its role as a key player in reproductive processes and hormonal regulation.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA