

TFRC Protein, Cynomolgus (Biotinylated, HEK293, His)

Cat. No.:	HY-P78904
Synonyms:	CD71; TFRC; TFR; sTfR; TfR1; Trfr; T9; p90
Species:	Cynomolgus
Source:	HEK293
Accession:	G8F602 (C89-F760)
Gene ID:	/
Molecular Weight:	70-90 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, pH 7.4. Normally trehalose is added as protectant 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 ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	TFRC protein orchestrates the cellular uptake of iron through receptor-mediated endocytosis of ligand-occupied transferrin receptors into specialized endosomes. This process involves endosomal acidification, leading to the release of iron, followed by the recycling of the apotransferrin-receptor complex to the cell surface with a return to neutral pH, concomitant with the loss of apotransferrin affinity for its receptor. Essential for the development of erythrocytes and the nervous system, TFRC serves a critical role in iron homeostasis. Beyond its iron-related functions, TFRC acts as a lipid sensor, regulating mitochondrial fusion by modulating the activation of the JNK pathway. Furthermore, TFRC forms homodimers through disulfide linkages, adding another layer to its multifaceted involvement in cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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