

ZNRF2 Protein, Human

Cat. No.:	HY-P702080
Synonyms:	ZNRF2; E3 ubiquitin-protein ligase ZNRF2; Protein Ells2; RING finger protein 202; RING-type E3 ubiquitin transferase ZNRF2; Zinc/RING finger protein 2
Species:	Human
Source:	E. coli
Accession:	Q8NHG8 (G2-D242)
Gene ID:	/
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
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>ZNRF2 Protein, an E3 ubiquitin-protein ligase, assumes a crucial role in the establishment and maintenance of neuronal transmission and plasticity. One of its key functions involves the ubiquitination of the Na(+)/K(+) ATPase alpha-1 subunit/ATP1A1, thereby influencing its endocytosis and/or degradation, a process integral to neuronal function. Additionally, ZNRF2 serves as a positive regulator of mTORC1 activation in response to amino acids, operating upstream of both the V-ATPase and Rag-GTPases. This regulatory cascade, however, exhibits a self-regulating feedback mechanism, as mTOR phosphorylation of ZNRF2 leads to its inhibition and subsequent targeting to the cytosol. This intricate interplay highlights ZNRF2's multifaceted role in modulating neuronal processes, emphasizing its significance in neuronal transmission and plasticity.</p>
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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