

## EIF3S5 Protein, Human

<b>Cat. No.:</b>	HY-P701438
<b>Synonyms:</b>	EIF3F; Eukaryotic translation initiation factor 3 subunit F; eIF3f; Deubiquitinating enzyme eIF3f; Eukaryotic translation initiation factor 3 subunit 5; eIF-3-epsilon; eIF3 p47
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	O00303 (A2-L357)
<b>Gene ID:</b>	8665
<b>Molecular Weight:</b>	

### PROPERTIES

<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	Please use rapid thawing with running water to thaw the protein.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	<p>EIF3S5 protein functions as a vital component of the eukaryotic translation initiation factor 3 (eIF-3) complex, crucial for multiple stages in protein synthesis initiation. This complex associates with the 40S ribosome, facilitating the recruitment of essential factors to form the 43S pre-initiation complex (43S PIC). EIF3S5 within the eIF-3 complex plays a key role in stimulating mRNA recruitment to the 43S PIC and scanning the mRNA for AUG recognition. Additionally, the eIF-3 complex, including EIF3S5, is essential for the disassembly and recycling of post-termination ribosomal complexes, preventing premature joining of the 40S and 60S ribosomal subunits before initiation. Notably, the eIF-3 complex, with EIF3S5 as a component, selectively targets and initiates the translation of a specific subset of mRNAs related to cell proliferation, including those involved in cell cycling, differentiation, and apoptosis. EIF3S5 also exhibits deubiquitinating activity on activated NOTCH1, promoting its nuclear import and thereby acting as a positive regulator of Notch signaling. These diverse functions underscore the critical role of EIF3S5 in coordinating translational initiation and cellular processes with implications for Notch signaling regulation.</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](mailto:tech@MedChemExpress.com)

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