

## EIF3M Protein, Human (His-SUMO)

<b>Cat. No.:</b>	HY-P71577
<b>Synonyms:</b>	B5; B5 receptor; Dendritic cell protein; eIF3m; EIF3M_HUMAN; Eukaryotic translation initiation factor 3 subunit M; Fetal lung protein B5; FLJ29030; GA17; hfl B5; hFL-B5; PCI domain containing 1 (herpesvirus entry mediator); PCI domain-containing protein 1; PCID1; TANGO7
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q7L2H7 (2S-374T)
<b>Gene ID:</b>	10480
<b>Molecular Weight:</b>	Approximately 58.4 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> SVPAFIDISE  EDQAAELRAY  LKSKGAEISE  ENSEGGLHVD LAQII EACDV  CLKEDDKDVE  SVMNSVVSL  LILEPDKQEA LIESLCEKLV  KFREGERP  RLQLLSNLFH  GMDKNTPVRY TVYCSLIKVA  ASCGAIQYIP  TELDQVRKWI  SDWNLTTEKK HTLLRLLYE  LVDCKKSDAA  SKVMVELLGS  YTEDNASQAR VDAHRCIVRA  LKDPNAFLFD  HLLTLKPKVF  LEGELIHDLL TIFVSAKLAS  YVKFYQNNKD  FIDSLGLLHE  QNMAKMRLLT FMGMAVENKE  ISFDTMQQEL  QIGADDVEAF  VIDAVRTKMV YCKIDQTQRK  VVVSHTHRT  FGKQQWQQLY  DTLNAWKQNL NKVKNSLLSL  SDT           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	EIF3M protein serves as an integral component of the eukaryotic translation initiation factor 3 (eIF-3) complex, crucial for orchestrating multiple steps in the initiation of protein synthesis. This complex associates with the 40S ribosome, facilitating the recruitment of essential factors such as eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA <sub>i</sub> , and eIF-5 to form the 43S
-------------------	---

---

pre-initiation complex (43S PIC). EIF-3M actively promotes mRNA recruitment to the 43S PIC, scanning of the mRNA for AUG recognition, and subsequent prevention of premature joining of the 40S and 60S ribosomal subunits prior to initiation. Furthermore, the EIF-3 complex plays a pivotal role in the disassembly and recycling of post-termination ribosomal complexes. Remarkably, EIF3M is instrumental in the translation initiation of specific mRNAs associated with cell proliferation, encompassing processes like cell cycling, differentiation, and apoptosis. It employs distinct modes of RNA stem-loop binding to exert either translational activation or repression. Additionally, in the context of microbial infection, EIF3M may facilitate virus entry during infection with herpes simplex virus 1 (HSV1) or herpes simplex virus 2 (HSV2).

---

**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