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## Product Data Sheet

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Product Name: GTF2E2 Human

Cat. No.: GP23603

Batch No.: 1

**Product Data**

Purity &gt;98%

Source E.coli.

Physical  
Appearance

solid

Shipping  
Condition Shipped with Ice Packs.

Synonyms

General transcription factor IIE polypeptide 2 beta 34kDa; transcription initiation factor IIE subunit beta; TFIIE-beta; TF2E2; TFIIE-B.

Amino Acid  
Sequence

MGSSHHHHHH SGLVPRGSH MGSMDPSLL RERELFKKRA LSTPVVEKRS  
 ASSESSSSSS KKKKTKVEHG GSSGSKQNSD HSNGSFNLKA LSGSSGYKFG  
 VLAKIVNYMK TRHQRGDTHP LTLDEILDET QHLDIGLKQK QWLMTEALVN  
 NPKIEVIDGK YAFKPKYNVR DKKALLRLLD QHDQRGLGGI LLEDIEEALP  
 NSQKAVKALG DQILFVNRPD KKKILFFNDK SCQFSVDEEF QKLWRSVTVD  
 SMDEEKIEEY LKRQGISSMQ ESGPKKVAPI QRRKKPASQK KRRFKTHNEH  
 LAGVLKDYS D ITSSK

Formulation

The GTF2E2 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 30% glycerol.

**Introduction**

GTF2E2 is vital for transcription initiation by RNA polymerase II in conjunction with other general factors. General Transcription Factor IIE is a heterotetramer composed of two subunits of relatively high molecular mass 57,000 (GTF2E1) and two of 34,000 (GTF2E2). GTF2E2 is necessary in conjunction with GTF2E1 for transcription initiation. GTF2E2 recruits TFIIH to the initiation complex and stimulates the RNA polymerase II C-terminal domain kinase and DNA-dependent ATPase activities of TFIIH. Both TFIIE and TFIIH are essential for promoter clearance by RNA polymerase.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

GTF2E2 Human Recombinant produced in E. coli is a single polypeptide chain containing 315 amino acids (1-291) and having a molecular mass of 35.6kDa. GTF2E2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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