

GTF2H4

Native Human General Transcription Factor 2H4

Catalog No.	CSI14612	Quantity:	2 µg
Alternate Names:	TFB2, TFIIH,TFIIH basal transcription factor complex p52 subunit, general transcription factor IIH, polypeptide 4 (52kD subunit)		
Description:	TFIIH is a multicomponent basal transcription factor complex. Nine subunits have been identified within the TFIIH holoenzyme complex. Various enzymatic activities, including DNA repair, helicase, and cyclindependent kinase activities, have been reported. The XPB, p62, p52, p44, and p34 subunits are thought to constitute the "core" of the TFIIH transcription machinery. Although the p44 and p34 subunits have no defined enzymatic activity, their zinc finger structures suggest that they may be DNA-binding proteins that might mediate interactions with soluble transcription factors. The Cdk-activating kinase (CAK) subcomplex, comprising subunits Cdk7, cyclin H, and MAT1, phosphorylate several cyclin- dependent kinases (Cdks), as well as the carboxy-terminal domain of pol II. Several inherited human disorders such as Xeroderma pigmentosum (XP), Cockayne syndrom (CS) and trichothiodystrophy (TTD) are associated with mutations in TFIIH subunits.		
	Native TFIIH complex is isolated from HeLa nuclear extract after several chromatographic purification steps. Purified TFIIH has been applied for <i>in vitro</i> transcription assays, DNA repair, DNA-protein, RNAProtein, protein-protein interaction assays as well as for <i>in vitro</i> correction of the nuclear excision repair defect of XPD, XPB and TTD-A fibroblasts.		
Gene ID:	2968		
Formulation:	Liquid. Supplied in 20 mM Tris-HCl, pH 8.0 + 100 mM KCl + 0.2 mM EDTA + 1 mM DTT, 20% glycerol.		
Purity:	60-70% and is devoid of other general transcription factors.		
Biological Activity:	100 ng are sufficient for reconstituted <i>in vitro</i> transcription assay and 500 ng are sufficient for protein-protein interaction assay detected by immunoblot.		
Storage & Stability:	Stable for 1 year in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.		

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® **Cell Sciences**®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com