BZW2 Protein, Human (GST)

Cat. No.:	HY-P700393
Synonyms:	BZW2; basic leucine zipper and W2 domains 2; basic leucine zipper and W2 domain-containing protein 2; HSPC028; MST017; MSTP017;
Species:	Human
Source:	E. coli
Accession:	Q9Y6E2 (M1-N419)
Gene ID:	28969
Molecular Weight:	75.2 kDa

PROPERTIES

AA Sequence	MNKHQKPVLT GQRFKTRKRD EKEKFEPTVF RDTLVQGLNE AGDDLEAVAK FLDSTGSRLD YRRYADTLFD ILVAGSMLAP GGTRIDDGDK TKMTNHCVFS ANEDHETIRN YAQVFNKLIR RYKYLEKAFE DEMKKLLLFL KAFSETEQTK LAMLSGILLG NGTLPATILT SLFTDSLVKE GIAASFAVKL FKAWMAEKDA NSVTSSLRKA NLDKRLLELF PVNRQSVDHF AKYFTDAGLK ELSDFLRVQQ SLGTRKELQK ELQERLSQEC PIKEVVLYVK EEMKRNDLPE TAVIGLLWTC IMNAVEWNKK EELVAEQALK HLKQYAPLLA VFSSQGQSEL ILLQKVQEYC YDNIHFMKAF QKIVVLFYKA DVLSEEAILK WYKEAHVAKG KSVFLDQMKK FVEWLQNAEE ESESEGEEN
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BZW2, a translation initiation regulator, functions as a suppressor of non-AUG initiated translation and repeat-associated non-AUG (RAN) initiated translation. It acts as a competitive inhibitor of eukaryotic translation initiation factor 5 (EIF5),

enhancing the accuracy of translation initiation. BZW2 achieves this by impeding EIF5-dependent translation from non-AUG codons, engaging in competition with EIF2S2 within the 43S pre-initiation complex (PIC). Notably, its interaction with EIF3C is essential for this competitive inhibition, and BZW2 also forms complexes with EIF3E and EIF2S2. This regulatory role underscores BZW2's significance in modulating translation initiation fidelity.

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