ITM2B Protein, Human (HEK293, His)

Cat. No.:	HY-P70938
Synonyms:	Integral Membrane Protein 2B; Immature BRI2; imBRI2; Protein E25B; Transmembrane Protein BRI; Bri; ITM2B; BRI; BRI2
Species:	Human
Source:	HEK293
Accession:	Q9Y287 (Y76-S266)
Gene ID:	9445
Molecular Weight:	29-33 kDa

PROPERTIES

AA Sequence	Y K Y F A L Q P D D V Y Y C G I K Y I K D D V I L N E P S A D A P A A L Y Q T I E E N I K I F E E E E V E F I S V P V P E F A D S D P A N I V H D F N K K L T A Y L D L N L D K C Y V I P L N T S I V M P P R N L L E L L I N I K A G T Y L P Q S Y L I H E H M V I T D R I E N I D H L G F F I Y R L C H D K E T Y K L Q R R E T I K G I Q K R E A S N C F A I R H F E N K F A V E T L I C S
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	ITM2B assumes a regulatory role in the intricate processing of the amyloid-beta A4 precursor protein (APP) and serves as an inhibitor, effectively impeding the aggregation and fibril deposition of amyloid-beta peptides. Beyond its influence on amyloid-beta pathways, ITM2B plays a pivotal role in the induction of neurite outgrowth, contributing to neurobiological processes. Furthermore, ITM2B acts as a protease inhibitor by strategically blocking access of secretases to critical APP cleavage sites. In its mature form (mBRI2), ITM2B serves as a potent modulator of APP processing, resulting in a substantial reduction in the secretion of secretase-processed amyloid-beta protein 40 and amyloid-beta protein 42, thereby highlighting its multifaceted role in cellular homeostasis.

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

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