

## BTBD9 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701539
Synonyms:	BTBD9; BTB/POZ domain-containing protein 9
Species:	Human
Source:	Sf9 insect cells
Accession:	Q96Q07 (S2-Q612)
Gene ID:	114781
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>The BTBD9 protein contains a BTB/POZ domain and a BACK domain. BTBD9 is widely expressed in the central nervous system of mouse, such as in the thalamus, hypothalamus, etc. Therefore, BTBD9 is involved in regulating hippocampal synaptic plasticity and learning and memory. BTBD9 is involved in formation of the limbs and cell fate determination in the developing <i>Drosophila melanogaster</i><sup>[1][2]</sup>. In addition, BTBD9 is also a genetic risk factor of Restless legs syndrome (RLS). Btbd9 knockout mice show motor restlessness, sleep disruption, altered sensory perception and serum iron levels, as well as enhanced fear memory. BTBD9 alleviates Mn-induced oxidative stress and neurotoxicity in <i>Caenorhabditis elegans</i> via regulation of insulin/insulin-like growth factor signaling pathway<sup>[3]</sup>.</p>
------------	--

**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

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA