

KBTBD8 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701580
Synonyms:	KBTBD8; Kelch repeat and BTB domain-containing protein 8; T-cell activation kelch repeat protein; TA-KRP
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8NFY9 (A2-L601)
Gene ID:	84541
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>KBTBD8 serves as a substrate-specific adapter within the BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex, functioning as a crucial regulator of neural crest specification. The BCR(KBTBD8) complex orchestrates this regulatory role by mediating the monoubiquitination of NOLC1 and TCOF1. Monoubiquitination facilitates the formation of a NOLC1-TCOF1 complex, serving as a platform that connects RNA polymerase I with enzymes responsible for ribosomal processing and modification. This orchestrated interaction leads to the remodeling of the translational program in differentiating cells, favoring neural crest specification. As a component of the BCR(KBTBD8) E3 ubiquitin ligase complex, alongside CUL3 and RBX1, KBTBD8 plays a pivotal role in modulating cellular processes involved in neural crest development.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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