

---

## Product Data Sheet

---

Product Name: TOR1A Human

Cat. No.: GP24860

Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DQ2; DYT1; Torsin-1A; Dystonia 1 protein; Torsin family 1 member A; TOR1A.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MVEPISLGLA LAGVLTGYIY PRLYCLFAEC CGQKRSLRE ALQKDLDDNL FGQHLAKKII LNAVFGFINN PKPKKPLTLS LHGWTGTGKN FVSKIIAENI YEGGLNSDYV HLFVATLHFP HASNITLYKD QLQLWIRGNV SACARSIFIF DEMDKMHAGL IDAIKPFLDY YDLVDGVSQY KAMFIFLSNA GAERITDVAL DFWRSGKQRE DIKDKDIEHA LSVSVFNKN SGFWHSSLIH RNLIDYFVPF LPLEYKHLKM CIRVEMQSRG YEIDEDIVSR VAEEMTFFPK EERVFSKGC KTVFTKLDYY YDD.		
Formulation	The TOR1A solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

**Introduction**

TOR1A which is a member of the AAA family of adenosine triphosphatases (ATPases) is associated to the Clp protease/heat shock family and is expressed highly in the substantia nigra pars compacta. TOR1A functions as a molecular chaperone assisting in the suitable folding of secreted and/or membrane proteins. Mutations in TOR1A result in the autosomal dominant disorder, torsion dystonia one.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

TOR1A Human Recombinant produced in E. coli is a single polypeptide chain containing

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

333 amino acids (21-332) and having a molecular mass of 38kDa. TOR1A is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**