

Type III iodothyronine deiodinase (dio3) Recombinant Protein | dio3 recombinant protein

Recombinant *Xenopus laevis* Type III iodothyronine deiodinase (dio3), partial

CATALOG #
AAA115491

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

Type III iodothyronine deiodinase (dio3); Recombinant *Xenopus laevis* Type III iodothyronine deiodinase (dio3); partial; dio3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	37-271.(U132S) Partial, provide the complete extracellular domain.
Sequence	DFQCIRRRVL LTAREESTAE HEDPPLCVSD SNRMCTVESL RAVWHGQKLD YFSAHLGCS APNTEVVMLE GRRCLKILDF SQGKRPLVFN FGCTSPPFM ARLQAYRRLA AQHVGIAFL LVYIEEAHPS DGWLSTDASY QIPQHQLQD RLAAQMLQ GAPGCRVVVD TMDNSSNAY GAYFERLYIV LEGKVYQGG RGPEGYKISE LRMWLEQYQQ GLMGTKGSGQ VVIQV
Sequence Length	271
Species	<i>Xenopus laevis</i> (African clawed frog)
Buffer	Tris-based buffer, 50% glycerol
Notes	The amino acid at position 132 is originally a "U", which has already been mutated to be "S" in the above sequence. This is due to the "U", or selenocysteine, which is encoded by UGA, is normally used as a stop codon in prokaryotic cells. Thus leading to early termination of translation. So we have substituted this "U" to simply be an "S" so that translation can proceed. Changing to cysteine may result in undesired disulfide bond formation, so serine is chosen since it is structurally related to both selenocysteine and cysteine.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148229240
NCBI GeneID	397779
NCBI Accession #	NP_001081332.1
NCBI GenBank Nucleotide #	NM_001087863.1
UniProt Accession #	P49899
NCBI Official Full Name	thyroxine 5-deiodinase
NCBI Official Synonym Full Names	deiodinase, iodothyronine, type 3 L homeolog
NCBI Official Symbol	dio3.L
NCBI Official Synonym Symbols	D3; DI-3; dio3; 5DIII; XL-15; itdi3; txd3; DIOIII
NCBI Protein Information	thyroxine 5-deiodinase L homeolog

UniProt Protein Name	Thyroxine 5-deiodinase
UniProt Gene Name	dio3
UniProt Synonym Gene Names	itdi3; txd3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/dio3-recombinant-protein-e-coli/115491>