

Type II iodothyronine deiodinase Recombinant Protein | Dio2 recombinant protein

Recombinant Rat Type II iodothyronine deiodinase

CATALOG # AAA115364	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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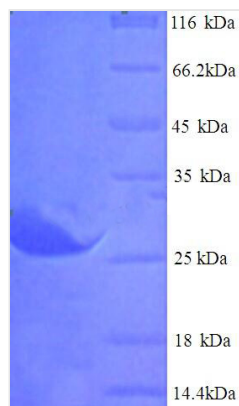
PRODUCT SYNONYMS

Type II iodothyronine deiodinase; Recombinant Rat Type II iodothyronine deiodinase; 5DII DIOII Type 2 DI Type-II 5'-deiodinase; Dio2 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	1-265aa (130:U-->MISS; 263:U-->S); Full-Length
Sequence	MGLLSVDLLI TLQILPVFFS NCLFLALYDS VILLKHVALL LSRSKSTRGE WRRMLTSEGL RCVWNSFLLD AYKQVKLGED APNSSVVHVS NPEAGNNCAS EKTADGAECH LLDFASAERP LVVNFGSATP PFTRQLPAFR QLVEEFSSVA DFLLVYIDEA HPSDGWAVPG DSSMSFEVKK HRNQEDRCAA AHQLLERFSL PPQCQVVADR MDNNANVAYG VAFERVCIQV RRKIAYLGK GPFSYNLQEV RSWLEKNFSK RSILD
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Dio2 recombinant protein	Catalyzes the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T3 (3,5,3'-triiodothyronine). Essential for providing the brain with appropriate levels of T3 during the critical period of development.
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References	Cloning of the mammalian type II iodothyronine deiodinase. A selenoprotein differentially expressed and regulated in human and rat brain and other tissues.Croteau W., Davey J.C., Galton V.A., St Germain D.L.J. Clin. Invest. 98:405-417(1996) Induction of type 2 deiodinase activity by cyclic guanosine 3',5'-monophosphate in cultured rat glial cells.Gondou A., Toyoda N., Nishikawa M., Tabata S., Yonemoto T., Ogawa Y., Tokoro T., Sakaguchi N., Wang F., Inada M.Thyroid 8:615-622(1998) Expression and nocturnal increase of type II iodothyronine deiodinase mRNA in rat pineal gland.Murakami M., Hosoi Y., Negishi T., Kamiya Y., Ogiwara T., Mizuma H., Yamada M., Iriuchijima T., Mori M.Neurosci. Lett. 227:65-67(1997) Night/day changes in pineal expression of >600 genes central role of adrenergic/cAMP signaling.Bailey M.J., Coon S.L., Carter D.A., Humphries A., Kim J.S., Shi Q., Gaildrat P., Morin F., Ganguly S., Hogenesch J.B., Weller J.L., Rath M.F., Moller M., Baler R., Sugden D., Rangel Z.G., Munson P.J., Klein D.C.J. Biol. Chem. 284:7606-7622(2009)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	132566529
NCBI GeneID	65162
NCBI Accession #	NP_113908.3
NCBI GenBank Nucleotide #	NM_031720.3
UniProt Accession #	P70551; O70179
Molecular Weight	31.8 kDa
NCBI Official Full Name	type II iodothyronine deiodinase
NCBI Official Synonym Full Names	deiodinase, iodothyronine, type II
NCBI Official Symbol	Dio2
NCBI Official Synonym Symbols	5DII; DIOII
NCBI Protein Information	type II iodothyronine deiodinase
UniProt Protein Name	Type II iodothyronine deiodinase
UniProt Gene Name	Dio2
UniProt Synonym Gene Names	Itid2; Txd2
UniProt Entry Name	IOD2_RAT

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.